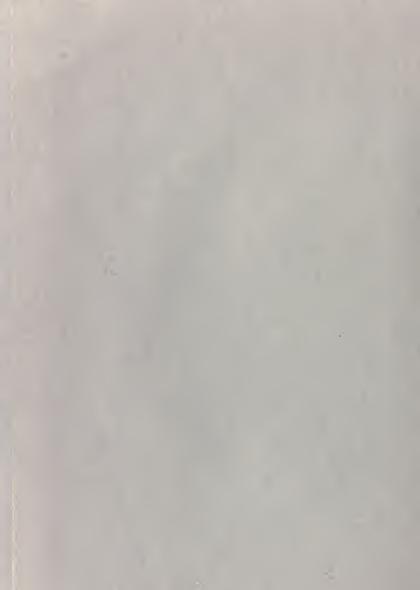
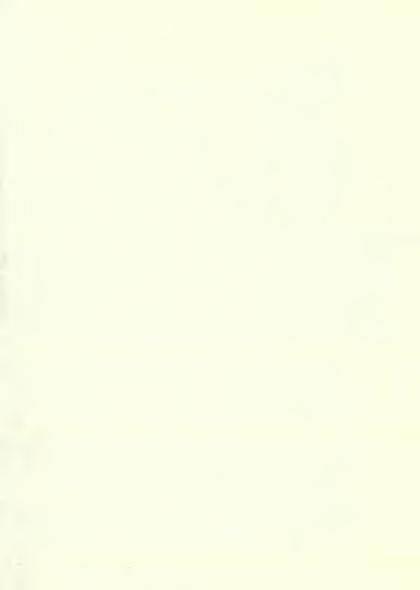


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Vind in California

ulletin No. 185 nuary 1978



ABOUT THE COVER: Windmills by the millio have been pumping water for rural America many years. A goal for California is to provide percent of our electrical energy from the wi within the next 10 years.

Department of Water Resources

Bulletin No. 185

Wind in California

January 1978

U.G.D. LEBRARY

Huey D. Johnson Secretary for Resources Edmund G. Brown Jr.
Governor

Ronald B. Robie

The Resources Agency State of California Department of Water Resources

Table of Equivalents

LENGTH

- 1 foot = 0.3048 metre
- 1 metre = 1 meter
- 1 metre = 39.37 inches = 3.2808 feet
- 1 mile = 1.6093 kilometres
- 1 kilometre = 3 280.8 feet = 0.62137 mile
- l degree latitude = 111.1 kilometres

VELOCITY

- 1 mile per hour = 1.467 feet per second = 0.447 metre per second = 1.61
 kilometres per hour = 0.868 knot
- 1 metre per second = 3.600 kilometres per hour = 1.940 knots = 2.236 miles
 per hour
- 1 knot = 1.152 miles per hour = 1.853 kilometres per hour = 0.515 metre
 per second

PRESSURE

- 1 inch mercury (in. Hg) = 25.4 millimetres Hg = 33.8640 millibars =
 3.4 kilopascals
- 1 millimetre mercury = 0.03937 in. Hg = 1.3332 millibars
- 1 millibar = 0.02953 in. Hg = 0.75006 millimetre Hg = 100 pascals

TEMPERATURE

Degrees Celsius = degrees centigrade Degrees Kelvin = degrees Celsius + 273

Degrees Celsius = 5/9 (degrees Fahrenheit - 32)

Degrees Fahrenheit = 9/5 degrees Celsius + 32

Degrees Rankine = Degrees Fahrenheit + 460

Reference Atmosphere - Pacific Missile Range, Point Mugu

| Altitude Feet | Altitude Metres | Pressure Millibars (mb) | Temperature Degrees K | Density kg/m ³ | Relative Humidity Percent | Vapor Pressure mb |
|------------------|--------------------|----------------------------|--------------------------|------------------------------|---------------------------------|-------------------------|
| 0 | 0 | 1019 | 286 | 1.237 | 81 | 12 |
| 820 | 250 | 989 | 284 | 1.206 | 84 | 11 |
| 1640 | 500 | 960 | 285 | 1.170 | 73 | 10 |
| 2461 | 750 | 932 | 286 | 1.132 | 48 | 7 |
| 3281 | 1000 | 905 | 287 | 1.097 | 27 | 5 |
| 4921 | 1500 | 852 | 285 | 1.039 | 22 | 3 |
| 6562 | 2000 | 803 | 283 | 0.986 | 18 | 2 |
| 8202 | 2500 | 755 | 281 | 0.936 | 17 | 2 |
| 9843 | 3000 | 711 | 278 | 0.890 | 17 | 2 |

FOREWORD

Bulletin No. 185, "Wind in California", is presented in response to a continued need for information on winds. It is an update of a study begun in late 1950s to examine alternative energy sources. The former study, "Winds in California," proved to be useful in a broad range of environmental planning activities. Most of the data in both publications were taken from observations at airports, air pollution study areas, and, in this report, wind power prospecting areas as well.

The bulletin summarizes 15 million hourly wind observations at 220 stations in California. It discusses the history and nature of wind measurements and occurrence in California.

The objective of Bulletin No. 185 is to summarize readily available wind data in California in a convenient volume. This bulletin represents a first step in assessing the wind power potential for the State of California.

In recent years, the potential for wind generation of electricity has been identified by various government studies. Large-scale demonstrations of this technology are currently being conducted in Europe and the United States.

The Department of Water Resources is currently working with the California Energy Resources Conservation and Development Commission to analyze potential favorable sites for large-scale generation of wind electric power. The potential of wind energy in California is significant and technologies to capture it represent a viable, reliable source of energy for the State Water Project.

Future studies of the Department of Water Resources will evaluate the potential of wind technology for implementation by the Department.

Ronald B. Robie, Director
Department of Water Resources

The Resources Agency State of California

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FIGURE 1. LOCATION OF WIND SUMMARIES, SEPTEMBER 1977 220 Stations with Wind Records Summarized in this Bulletin (See Table 1 for alphabetical listing; summaries begin on page 47)



INTRODUCTION

Wind is generated from solar energy. The sun heats the earth's surface, causing air to expand and develop regional pressure gradients. These pressure gradients store energy which wind relieves, converting static air pressure differences to dynamic energy.

With energy becoming more scarce and expensive, wind power is being reexamined as a potential clean, renewable source of energy. Wind energy neither causes air pollution nor produces waste heat to dispose of in rivers, nor does it require cooling water. The energy source is renewable in that it is derived from the sun, and the development of wind power does not deplete the solar "resource".

Purpose

This report summarizes existing wind records in California. The data indicate that:

- Peak wind velocities in California are generally associated with winter-type storm fronts, whereas the strongest sustained winds occur in the summer with maximum sunshine.
- California's desert areas experience both their highest peak winds and their highest sustained winds in the summertime.
- Higher elevation stations experience the highest sustained winds, as well as their peak winds, in the wintertime.

Many of the wind records summarized here comprise well over a quarter million

hourly (28.5 years) observations, whereas other records are relatively short. One year is generally the minimum length of record for this report.

This bulletin is an update of the 1971 and the 1960 editions of a Department of Water Resources office report titled "Wind in California". Keeping a current file of this type data is an ongoing activity of the Department of Water Resources and the Air Resources Board. We would like to learn of additional mean annual wind data that readers would be willing to share for the next edition of "Wind in California". Anyone desiring to contribute wind data can contact James D. Goodridge, Department of Water Resources, P. O. Box 388, Sacramento, CA 95802; or Arndt Lorenzen or Freeman Smith, Air Resources Board, P. O. Box 2815, Sacramento, CA 95814.

Scope

Bulletin No. 185 summarizes readily available data on hourly wind speed and direction and presents an index of locations of unsummarized wind data as well as data on extreme annual wind speeds. These data are basically once-an-hour observations of wind, mainly for airport locations, as shown in Figure 1. $\frac{1}{2}$ The report also contains some records from stations with less than once-an-hour observations and other records that are actual average hourly wind speeds. Most of these records are arranged in 16 compass points and into various wind speed classes. Some of the summaries are in eight or twelve compass points. The class size and the units used are variable, expressing the needs of those who originally prepared them. None of the wind speed direction data reported here were

If Figure 1 appears on the opposite page. For the reader's convenience, the remaining figures and tables follow the report text (beginning on page 12).

prepared specifically for this bulletin.

Locations having wind speed-direction summaries are indexed in Table 1. Wind speed-direction summaries for 220 stations are presented alphabetically following Table 9. Nonsummarized records from 372 additional California stations are shown in Table 2. The period of record for the wind speed summaries is not necessarily the entire available record. Additional data may be available on stations whose records are summarized here which are not reflected in these tables.

A generalized wind-velocity distribution for California as a function of mean annual wind speed is shown in Figure 2 (see page 12).

WIND MEASUREMENTS

Wind velocities have been measured for over 300 years. An important landmark in the history of wind measurement was development of the Beaufort Scale of wind force, shown in Table 3. The scale was developed in 1806 for use on sailing ships. In the 1870s an International Meteorological Committee adopted the Beaufort Scale for use in international weather telegraphy. It has become the chief scale for specifying the force of wind throughout the world. This scale equates to the emperical relationship $V = 0.836B^{3/2}$, where V is wind speed in metres per second and B is the Beaufort Scale. Wind velocity grouping in most of the summaries of this report follow the Beaufort Scale.

The Beaufort Scale has utility in estimating wind pressure. The wind force in pounds per square foot was estimated to be 0.0105 times the cube of the Beaufort number, according to Golding.

The development of the rotating cup anemometer by T. R. Robertson in the 1850s was the start of the scientific study of wind on a routine basis. The earliest wind sensor was probably the pressureplate type which Leonardo da Vinci described and which was first built by Robert Hooke in 1667. Most of the more modern wind records are reported in knots, but some are in metres per second. The older records are in miles per hour. The units reflect the choice of those who originally prepared these summaries. Some conversion factors

1 m/sec = 3.28 ft/sec = 3.60 km/hr = 1.94 knots = 2.24 mph. Other pertinent conversion factors are shown on page ii.

Wind Instruments

The main instrument used by the National Weather Service is the rotating cup anemometer. A four-cup type was used until December 31, 1927, when the three-cup instrument was adopted as the standard.

The photographs shown here portray modern cup-type and propeller-type anemometers. The propeller-type anemometer generally records on an analog recorder. However, reducing analog records to hourly means is a time-consuming task with a significant subjective factor. Cup-type anemometers typically have integrating type records, which record miles of wind





movement within a given time. Integrated records are easy to evaluate. The preferred anemometer recorder for wind power studies is one which records integrated measurements either of wind velocity or power output.

History of Wind Measurements

The early history of wind summaries in California is similar to the history of the National Weather Service (formerly the U. S. Weather Bureau). Until the mid-1930s almost all wind measurements in California were from Weather Service stations. In 1945, a joint Weather Service-Army-Navy tabulating unit was established in New Orleans, where large numbers of the detailed wind summaries presented here were prepared. By 1952, the National Climatic Center at Asheville, North Carolina was designated by the National Archivist to be the official custodian of federal weather records. Until the 1970s, nearly all of the hourly wind records have been kept in connection with aviation activities. Air pollution

control has been the cause for establishing large numbers of additional hourly reporting wind records since 1970. Wind power prospecting is now (1977) spawning new wind records.

Examples of the newest and best wind summaries are those prepared from measurements at Sacramento Municipal Utility District's Rancho Seco installation, where automated anemometers are integrated every few seconds or minutes by minicomputers. This equipment is finally removing subjectivity from wind observation.

In California the highest sustained wind velocities usually occur during spring and early summer. Most wind measuring stations have maximum winds in the afternoon. Exceptions to this are Fresno and Mt. Tamalpais, where the highest average wind speeds were recorded in the late evening. The lowest average wind speeds usually occur before noon during the summertime. Summaries of average wind speeds by hours and month for 13 stations are presented in Figure 3 (sheets 1 through 7). Mean monthly wind velocities for selected California stations are listed in Table 4.

Limitations of Wind Records

The 4 cup anemometer was found to overmeasure the actual wind speed by about 24 percent at 100 mph. A three-cup anemometer has been used by the National Weather Service since January 1, 1928. Some of the records of this report. which were taken with four-cup anemometers, are corrected to the equivalent of the three-cup anemometers: however. the three-cup anemometer also overregisters by about nine percent at 100 mph. The actual values of wind for the older records are in doubt because it is not always clear which corrections have been applied to individual records. The earlier wind speed records (before 1930) should be used with caution because of the possible inconsistency with which corrections for anemometer calibration have been made.

When an anemometer is installed, the preexisting environment is modified. The physical presence of the instrument makes it impossible to measure the true wind. Therefore, wind measurement can be only indexes of the true wind speed.

The National Weather Service and the military meteorological services use the same basic techniques to observe wind velocities. (Federal Meteorological Handbook).

When a dial-type wind indicator is used, the observations represent a one minute average, which is visually observed only once each hour. Where a recording type instrument is used, the wind velocity for a five-minute time interval is used; therefore, the resulting measurements are not integrated over the hour. Where wind indicators are unavailable, the Beaufort Scale (Table 3) is used to estimate wind speeds.

Cup-type anemometers have problems in overspeeding during times of decreasing wind speed (see Busch, 1976).

Anemometers in a poor state of maintenance have an increasing value of threshold wind velocity. Some of the instruments reported here could respond to speeds as low as 0.5 mph, whereas others may need as much as 4-mph starting speed. In this report, no differentiation is made between anemometers with respect to operating condition.

Bias in the published summaries can also result if more wind observations are made in the daytime than at night. Few records are corrected for excessive daytime observations. Most of the errors of this type probably result in a few tenths of a mile per hour of overregistering.

Vertical Wind Structure

Wind speeds generally increase with height above ground. The vertical variation is commonly modeled with the following expression (Golding):

$$V_a/V_b = (Z_a/Z_b)^p$$

Where a and b are heights above ground of the wind turbine and anemometer,

V = wind speed

Z = height

P = varies with terrain and weather type.

 $P \cong 0.143$ for flat terrain

 $P \cong 0.4$ for rough terrain

For small wind turbines with propeller diameters varying up to about 10 metres (33 feet), the wind velocity at the center of the propeller may be calculated from the preceding expression (by Golding). Variations of wind velocity over the propeller height may be neglected. For large propeller diameters, the wind velocity variation over the propeller height should not be neglected; a detailed calculation using equations provided in the DWR publication "Romero Overlook Wind Energy Survey" could be used.

There are not enough data in Bulletin No. 185 to verify this vertical wind structure. Data are available from some stations equipped with towers and having wind data at several levels. These include:

Rancho Seco, SMUD's Nuclear Plant in Sacramento County

Walnut Grove, the television tower instrumented by the University of California at Davis

Sutro Tower, in San Francisco, instrumented by California State University, San Jose

Diablo Canyon, Pacific Gas and Electric Company's Nuclear Plant in San Luis Obispo County Wasco, Nuclear Plant site of Los Angeles Department of Water and Power

Kirkwood Meadows North, U.S. Forest Service

Kirkwood Meadows South, U.S. Forest Service

Mineral King Area, U.S. Forest Service

Additional data on over 100 meteorological towers are available at the Nevada Test Site north of Las Vegas. It appears that meteorological towers with at least two levels of wind data are a part of the Nuclear Reactor Safety Studies, and data may be located in pertinent environmental impact reports.

The wind summaries of this report were retyped onto a standard format with one exception. This is Mt. Givens, located at 9,200 feet in the Southern Sierras. The Mt. Givens record is shown here as monthly wind frequency (Figure 4) because an annual summary is unavailable in the standard format of this bulletin.

EXTREME ANNUAL WINDS

Extreme annual wind measurements are factors in determining structural strengths. Data on extreme winds are shown in Tables 5 and 7 and summarized in Tables 6 and 8. Two methods have been used to describe extreme winds: These are the fastest mile and the peak gust. Historic data on the fastest mile are available from most of the National Weather Service's (U.S. Weather Bureau) first-order stations. The data on peak gusts are available from the military weather stations. The peak gust is greater than the fastest mile because of the time over which it is measured.

The peak gust is the maximum wind speed recorded. If the wind measuring equipment is a continuous recording device, the peak gust corresponds to the maximum

value on the wind curve. Although the peak gust is usually thought of as an "instantaneous" wind, it really represents a wind averaged over the response time of the measuring equipment -- normally about one second.

The fastest mile is the one-mile passage of wind with highest speed. It is measured by a cup type anemometer, which is similar to an automobile odometer and which indicates each mile of wind movement past the anemometer.

The averaging period varies according to the wind speed; a fastest-mile wind of 60 mph will pass the anemometer in an averaging period of one-minute, while a 90-mph fastest mile corresponds to an averaging period of 40 seconds.

The fastest mile for the stations shown in Table 5 is 5.3 times the mean annual hourly wind speed, as shown in Table 6.

The peak gust averages 8.3 times the mean annual wind speed. The annual peak gust is tabulated in Table 7 and summarized in Table 8. Generalized frequency relationships of fastest mile and peak gust are shown in Figure 5. The Weibull distribution was found to be the preferred frequency distribution for wind extremes based on the relationship between skew and kurtosis (Wu 1974).

The greatest monthly wind velocity occurs with winter type storms in most of California. The exception is the desert area, where peak winds occur in the summertime. The highest monthly winds for each month at selected stations are shown in Table 9.

WIND POWER

Background

Our reliance on fossil fuels is analogous to "living" on savings instead of on income. In this sense, wind is an income -- a resource renewed with each new gust. Windmills have been used for

centuries as wind energy conversion systems in pumping water, grinding grain, moving ships, and other applications in rural areas. Six million small windmills of less than one horsepower have been used to pump water and generate electricity in the United States during the last 100 years. These windmills were typically 12 to 16 feet in diameter with multiple metal fan blades mounted on a horizontal shaft with a tail vane to keep the rotor oriented to the wind. Over 150,000 are still used by Western ranchers for watering stock in remote areas. However, during the 1930's, under the Rural Electrification Administration program, most of the windmills that had electric generators were replaced. The largest wind turbine in

the United States was built in 1941 by Smith and Putnam. It had a 175-footdiameter rotor and generated 1.25 megawatts of electrical power.

Wind is only air in motion. Moving air has considerable kinetic energy. Kinetic energy is proportional to one-half the mass times the velocity squared.

The maximum available power in kilowatts (Kw) from a windmill or wind turbine is $P=.0003d^2v^3$, where d is the propeller diameter in metres and V is the wind speed in metres per second.

The maximum available power (in kilowatts) in wind with various wind speeds and diameters of windmills follows:

Power in Kilowatts

| Wind Speed | | Diam | neter in Me | tres | | Wind Speed | | | | | |
|---------------|------------------|-------|-------------|------|------|---------------|--|--|--|--|--|
| metres/sec | 2 | 10 | 20 | 30 | 60 | mi/hr | | | | | |
| | | | | | | | | | | | |
| 5 | 0.15 | 3.8 | 15 | 34 | 135 | 11 | | | | | |
| 10 | 1.2 | 30.0 | 120 | 270 | 1080 | 22 | | | | | |
| 15 | 4.1 | 101.0 | 405 | 911 | 3640 | 34 | | | | | |
| 20 | 9.6 | 240.0 | 960 | 2160 | 8640 | 45 | | | | | |
| | 7 | 33 | 66 | 96 | 196 | | | | | | |
| | Diameter in Feet | | | | | | | | | | |

Modern high-speed propeller-type wind turbines can extract up to 47 percent of the total air mass kinetic energy, or about 75 percent of the maximum available power, as shown above. Conversely, the low-speed windmill (shown on the cover) can extract less than 20 percent of the total kinetic energy, or less than 35 percent of the maximum available power.

Estimates of power based on the average wind underestimate the actual power production. As an example, constant wind of 10 mph represents energy proportional to 55 watts per square meter (W/m^2) , whereas if half the time the wind were 5 mph and half were 15, the mean would

still be 10 mph and the power by this cubic response would average 96 W/m^2 .

According to Golding (1976), the mass of air passing in a unit of time is DAV, and the kinetic energy passing through the area in unit of time is

$$P = 1/2 DAVV^2 = 1/2 DAV^3$$

Where D = Density, the mass per unit

V = Velocity

A = Area through which wind passes.

For power in units of kilowatts per square metre of area of air passage, wind velocity in metres per second, and standard air density (where $D = 1.29 \text{ kg/m}^3$), this reduces to:

$$P/A = 0.000645v^3 / \overline{k}W/m^2 / .$$

The total energy of wind (Golding) is unavailable because energy-depleted wind must be transported from the site. The maximum energy that can be extracted is only 16/27 of the total available energy. This reduces (1) above to:

$$P/A = 0.000382v^3 / kW/m^2/.$$

This is an upper limit of available energy. The air density of 1.29 kg/m is actually a function of pressure, temperature, and moisture (water vapor) content of air. The moisture effects are usually considered negligibly small in wind power applications. The density of dry air is equal to the pressure in millibars (mb) divided by the product of the absolute temperature (K) and the gas constant for air (2870).

California's Wind Power Potential

The areas of fastest mean annual wind speeds from these data are in the San Francisco Bay area. There could be places in the mountains where wind blows strongly enough for effective use of wind energy conversion, but data on mountain winds are scarce. Figure 6 shows, in a highly generalized manner, regions where mean annual winds of 10 to 15 miles per hour (4.5-6.7 metres per second) have been observed in California.

Vegetation in many coastal areas has been sculptured by strong prevailingwesterly winds. Trees deformed by wind could be a guide to places to prospect for wind power.

Biological Wind Prospecting is the title of a research project under way by E. Wendell Hewson of Oregon State University, Corvalis Oregon. This work is funded by the Federal Energy Research and Development Administration. Indexes of deformation of trees as a function of wind speed have been developed.

The dominant spring and summer west wind of the Bay-Delta area was appreciated by the Indians who inhabited the region (Archibald 1973). Their word "Suisun" means west wind. This seems to be the principal wind of interest for power generation. It extends from Mt. Vaca in the north to Pacheco Pass on the ridge of the Coastal Range near Los Banos in the south.

The oak trees of the Santa Ynez Valley illustrate another area of apparently strong wind. These trees are flagged over to the southeast, indicating a strong prevailing northwest wind.

Current Activities

The Energy Research and Development Administration (ERDA) has been developing large-scale wind systems for electric utility applications since the 1970s. One prototype unit was built for ERDA in 1975 by the National Aeronautics and Space Administration (NASA). The unit, which has a propeller 125 feet in diameter, is mounted on a 100-foot tower. The wind turbine develops 100 kilowatts, which is enough power for 30 averagesize homes.

In 1978, ERDA is planning to install four large propeller-type wind turbines. Two units will be 100-kilowatt machines with 125-foot rotors and the other two will be 1,200-kilowatt machines with 200-foot rotors. ERDA will locate one of the 1,500-kilowatt machines in the Blue Ridge Mountains of North Carolina. Two other sites under consideration are in California at Point Arena and San Gorgonio Pass.

The California Energy Commission's goal for developing wind power in California is 1 percent of the State's electrical needs, or 500 megawatts, by 1987.

The Department of Water Resources has a long-range energy program which includes the development of wind power as an alternative energy source to meet the energy requirements of the State Water Project.

Currently, the Department is conducting along the aqueduct system to determine wind surveys in the most promising areas the amount of wind power available.

Wind Energy Associations

Wind Energy Association of America 1700 East Walnut Pasadena, CA 91106

American Wind Energy Association 54468 CR 31 Bristol, Indiana 46507

Northern California Solar Energy Association PO Box 1056 Mountain View, CA 94042

Solar Energy Section Energy Resources Conservation and Development Commission 111 Howe Avenue Sacramento, CA 95825

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FIGURES 2 THROUGH 6
TABLES 1 THROUGH 9
WIND SPEED-DIRECTION SUMMARIES

FIGURE 2
GENERALIZED WIND SPEED FREQUENCY
RELATIONSHIP FOR CALIFORNIA

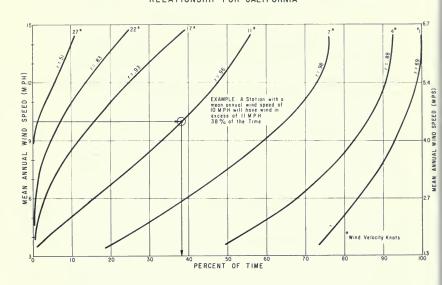
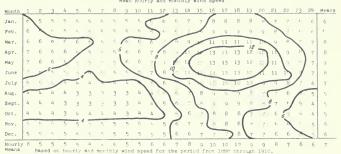
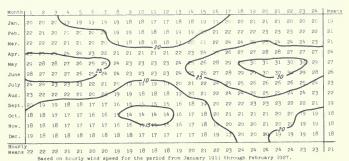


FIGURE 3. AVERAGE WIND SPEED BY HOUR AND MONTH FOR 13 CALIFORNIA STATIONS (Sheet 1 of 7)

EUREKA
Mean Hourly and Monthly Wind Speed



POINT REYES
Mean Hourly Wind Speed (Miles Per Hour)



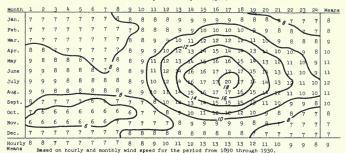
MT. TAMALPAIS

| | | | | | | | | м | ean | Hou | rly | and | Mont | h1y | Wind | Spe | ed | | | | | | | | |
|--------|------|----|----|----|----|------|-----|----|-----|-----|-----|-----|------|-----|------|-------------|----|------------|----|----|-----|----|-----|----|-------|
| Month | 1 | 2 | 3 | 4 | 5_ | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 55 | 23 | 24 | Means |
| Jan. | 50 | 20 | 21 | 21 | 20 | 21 | 20 | 21 | 20 | 19 | 18 | 17 | 17 | 17 | 17 | 18 | 19 | % 0 | 20 | 21 | 21 | 55 | 21 | 21 | 50 |
| Feb. | 21 | 22 | 21 | 21 | 21 | 21 | 21 | 20 | 23 | 17 | 15 | 14 | 14 | I A | 15 | 16 | 17 | 19 | 20 | 21 | 21 | 21 | 55 | 51 | 19 |
| Mar. | 22 | 55 | 21 | 21 | 21 | 21 | 20/ | 19 | 17 | 15 | 15 | 14 | 14 | 14 | 15 | 16 | 17 | 19 | 1 | 21 | 55 | 55 | 55 | 55 | 19 |
| Apr. | 22 | 55 | 55 | 55 | 21 | 21 | 19 | 17 | V | 13 | 12 | 11 | 11 | 12 | 4 | 15 | 15 | 19 | kı | 23 | 23 | 24 | 23 | 55 | 18 |
| Hay | 24 | 24 | 24 | 24 | 23 | 22 | 19 | 17 | 14 | 12 | 11 | 11 | 12 | 12 | :(| 17 | 6 | 53 | 6 | 27 | 27 | 26 | 26 | 25 | 50 |
| June | 24 | 24 | 23 | 23 | 22 | 1 | 18 | 16 | 14 | 11 | _ | 9 | 10 | 10 | 11 | 100 | 17 | 19 | 55 | 24 | 125 | 25 | 25 | 25 | 18 |
| July | 20 | 20 | 49 | 19 | 18 | 17 | محز | 13 | 12 | 6 | 8 | 7 | 7 | 8 | 9 | 11 | 13 | 16 | 18 | 20 | 21 | 21 | 22 | 21 | 15 |
| Aug. | 18 | 17 | 17 | 17 | 16 | 15 | 14 | 12 | 10 | 9 | 8 | 7 | 8 | 8 | 9 |) 11 | 13 | 15 | 17 | 19 | 20 | 20 | 20 | 19 | 14 |
| Sept. | 18 | 18 | 18 | 18 | 18 | 17 | 1 | 14 | 12 | 10 | -10 | و | 9 | 10 | 10 | 12 | 14 | 16 | 18 | 19 | 16 | 20 | 20 | 19 | 15 |
| Oct. | 18 | 18 | 18 | 18 | 19 | 19 | 18 | 17 | 10 | 14 | 13 | 12 | 11 | 12 | 13 | 14 | 16 | 17 | 18 | 18 | 19 | 19 | 18 | 18 | 16 |
| Nov. | 19 | 19 | 19 | 19 | 19 | 20 | 19 | 19 | 18 | 16 | 15 | 14 | 13 | 13 | 14 | 15 | 17 | 18 | 18 | 19 | 19 | 19 | 19 | 19 | 17 |
| Dec. | 21 | 21 | 21 | 21 | 21 | 0 21 | 21 | 21 | 20 | 20 | 19 | 18 | 17 | 17 | 17 | 18 | 19 | 120 | 20 | 21 | 21 | 21 | 21 | 21 | 20 |
| Hourly | / 21 | 21 | 20 | 20 | 20 | 20 | 18 | 17 | 16 | 14 | 13 | 12 | 12 | 12 | 13 | 15 | 16 | 18 | 50 | 21 | 55 | 55 | 5.5 | 21 | 18 |

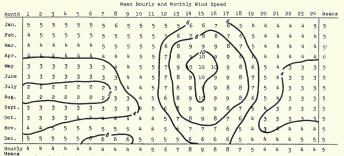
FIGURE 3 (Sheet 2 of 7)

SAN FRANCISCO

Mean Hourly and Monthly Wind Speed

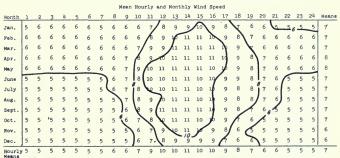


DOD ANGELLED



Based on hourly and monthly wind speed for the period from 1890 through 1930.

SAN DIEGO

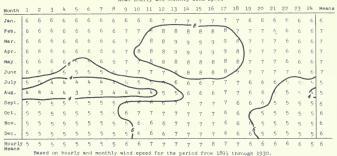


Dased on hourly and monthly wind speed for the period from 1887 through 1930.

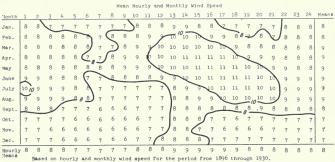
FIGURE 3 (Sheet 3 of 7)

RED BLUFF

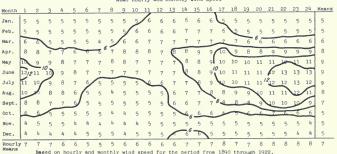
Mean Hourly and Monthly Wind Speed

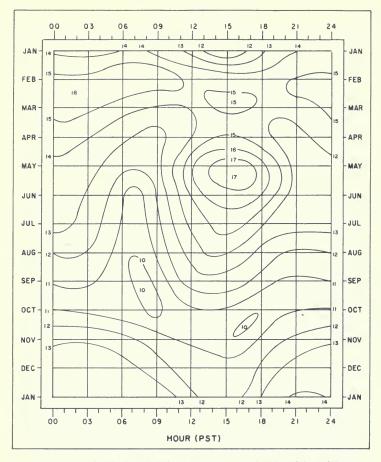


SACRAMENTO



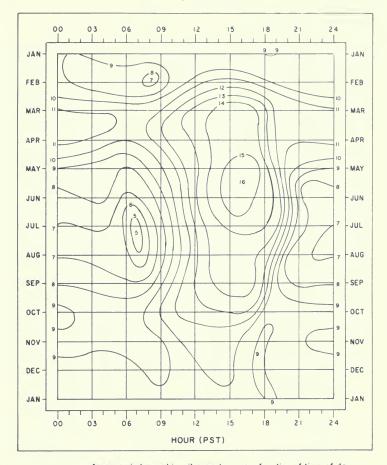






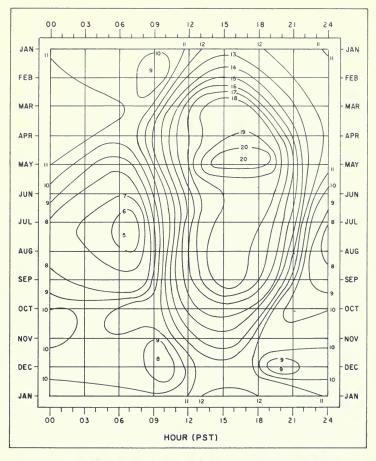
Station: Area 12 Mesa, Rainier Mesa, Nevada August 1957 - December 1964

Latitude: 37° 11' 25" North Elevation: 2 280 metres (7,480 feet)
Longitude: 116° 12' 50" West Height: 30.5 metres (100 feet)



Station: Tower 4, Jackass Flats, Nevada March 1956 - February 1962

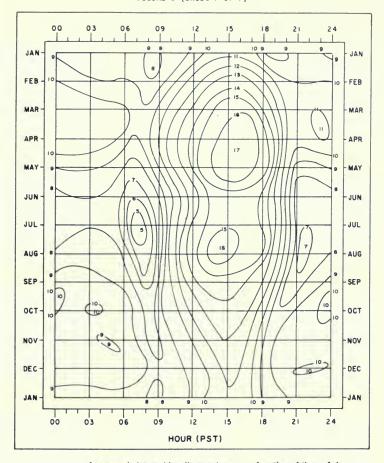
Latitude: 36° 49' 00" North Elevation: 1138 metres (3,735 feet)
Longitude: 116° 16' 10" West Height: 29 metres (96 feet)



Station: Tower 5A, Jackass Flats, Nevada November 1958 - December 1964

Latitude: 36° 04' 01" North Elevation: 1 110 metres (3,644 feet)

Longitude: 116° 19' 40" West Height: 29 metres (96 feet)



Station: BJY, Yucca Flat, Nevada July 1957 - December 1964

Latitude: 37° 04' 25" North Elevation: 1 242 metres (4,075 feet) Height: 29 metres (96 feet)

Longitude: 116°03' 25 " West

FIGURE 4
PERCENTAGE FREQUENCIES OF WIND SPEED CLASSES (by hours)
Mt. Givens, California--1968 through 1970; 1973 through 1975

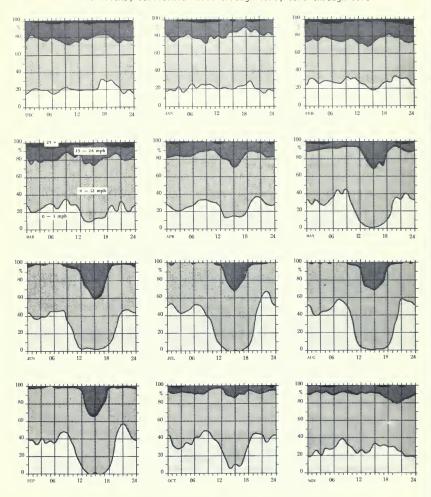
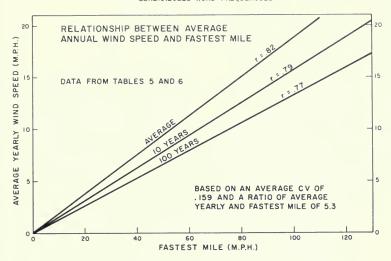


FIGURE 5
GENERALIZED WIND FREQUENCIES



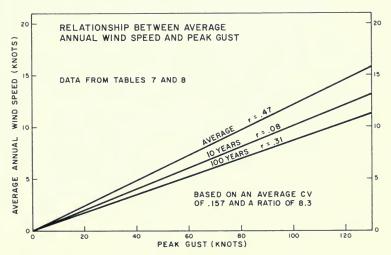


FIGURE 6
REGIONS WHERE MEAN ANNUAL WIND SPEEDS
IN EXCESS OF 10 AND 15 MILES PER HOUR
HAVE BEEN OBSERVED - JUNE 1977



TABLES

TABLE 1. WIND SUMMARIES AVAILABLE FOR CALIFORNIA

| STATION | | | EL | INST | NO. OF | START | END SU | TP | MEAN |
|------------------------------------|----------------|------------------|------|------|---------------|----------------|----------|----|--------|
| NAME | LAT | LONG | M | HGT | OBS | MO YR | MO YR 1/ | 1/ | MPS |
| | | | | | | | | | |
| ALAMEDA NAS | 37 47 | 122 19 | 9 | 7 | 238965 | 01 45 | 12 72 2 | 1 | 3.83 |
| ALAMITOS BEACH 19 | 33 45 | 118 08 | 3 | | 37240 | 12 52 | 06 60 14 | 9 | 2.71 |
| ALHAMBRA 37 | 34 05 | 118 09 | 13 | Q | 87152 | 09 52 | 07 69 14 | 9 | 1.56 |
| ALHAMRRA 119 | 34 06 | 118 08 | 8 | 1.1 | 36861 | 06 70 | 12 74 14 | 9 | 1.78 |
| ALTADENA 52 | 34 11 | 118 08 | 9 | 9 | 53276 | 02 53 | 01 63 14 | 9 | 1.60 |
| ANAHEIN APCO 71 | 33 49 | 118 25 | 224 | 14 | 128954 | 01 58 | 12 73 14 | 9 | 1.56 |
| APPLE VALLEY SAWR | 34 32 | 117 13 | 339 | | 27986 | 12 60 | 11 65 2 | 1 | |
| ARCATA CAA | 40 59 | 124 06 | 69 | | 7837 | 12 49 | 11 58 2 | 1 | 2.61 |
| | 33 52 | 118 05 | 15 | Q | 28673 | 12 56 | 05 60 14 | 9 | 1.65 |
| AUBURN AIRPORT | 38 57 | 121 04 | 460 | | 39625 | 01 34 | 12 38 2 | 1 | |
| AZUSA 97 | W | 117 56 | 183 | C) | 127521 | 04 60 | 12 74 14 | 9 | 1.78 |
| BAKERSFIELD | 35 25 | 119 03 | 151 | - 6 | 23155 | 01 64 | 12 73 2 | 1 | 2.61 |
| BAKERSFIELD MEADO | 135 25 | 119 03 | 151 | 18 | 43848 | 01 56 | 12 60 2 | 1 | 2.58 |
| BAKERSFIELD MINTER | 35 30 | 119 11 | 130 | | 37875 | 10 41 | 01 46 2 | 1 | 2.67 |
| BALDWIN PARK 47 | | 117 58 | 115 | 15 | 57295 | 04 54 | 03 62 14 | 9 | 1 . 47 |
| BEALE AFB | 39 07 | 121 26 | 38 | | 111333 | 08 43 | 12 70 2 | 1 | 2.58 |
| BEAUMONT | 33 56 | 116 56 | 790 | | 29202 | 07 38 | 02 42 2 | 1 | 4.05 |
| BELL 35 | 33 59 | 118 11 | 46 | 11 | 152439 | 09 52 | 12 56 14 | 9 | 2.63 |
| BERKELEY LRL 84 | 37 52 | 122 15 | 290 | 12 | 40705 | 03 62 | 02 68 4 | 1 | |
| BISHOP WRAS | 37 22 | | 263 | 6 | 109147 | 01 48 | 12 72 2 | 1 | 3.83 |
| BLUE CANYON WRAS | 39 17 | | 610 | G | 92883 | 01 48 | 12 64 2 | 1 | 4.32 |
| BLYTHE RCAP | 33 37 | 114 43 | 119 | | 43800 | 09 69 | 08 74 2 | 1 | 3.25 |
| BROOKINGS ORE | 42 03 | 124 18 | 46 | | 673 | 01 37 | 03 42 8 | 6 | |
| BUENA PARK 95 | 33 53 | 118 01 | 53 | 11 | 126272 | 03 59 | 12 74 14 | 9 | 2.00 |
| BURBANK | 34 12 | 118 22 | 551 | | 43773 | 01 60 | 12 64 2 | 1 | 2.54 |
| CAMBRIA | 35 34 | 121 07 | 30 | | 12159 | 06 43 | 10 44 2 | 1 | 3.29 |
| CAMP PENDLETON MC | 33 18 | 117 21 | 19 | 56 | 23684 | 07 66 | 06 72 2 | 1 | 2.63 |
| CANOGA PARK 67 | 34 12 | 118 36 | 244 | F | 159672 | 12 55 | 12 74 14 | 9 | 1.29 |
| CASTLE AFB | 37 22 | 120 34 | 54 | | 260355 | 01 42 | 12 72 2 | 1 | 3.03 |
| CENTRAL STONY | 35 58 | 121 16 | 402 | | 56842 | 64 | 70 5 | 1 | _ |
| CHICO AAF | 39 48 | 121 51 | 77 | | 31535 | 05 42 | 12 45 2 | 1 | 3.74 |
| CHINA LAKE | 35 41 | 117 40 | 682 | 5 | 207031 | 01 45 | 12 72 2 | 1 | 3.65 |
| CHULA VISTA-BROWN | 32 35 | 116 58 | 160 | | 12852 | 04 45 | 05 55 2 | 1 | |
| CLOVERDALE PEAK | 38 53 | 123 00 | | | 12678 | 11 72 | 10 74 1 | 1 | 3 • 38 |
| COALINGA | 36 08 | 120 21 | 196 | | 2532 | 01 35 | 12 32 2 | 1 | |
| COMPTON 24 | 33 54 | 118 13 | 30 | 12 | 79341 | 12 54 | 04 66 14 | 9 | 1.87 |
| COMPTON AP 112 | 34 04 | 118 15 | 30 | 9 | 74902 | 04 66 | 12 74 14 | 9 | 2.54 |
| CONCORD | 37 59 | 122 03 | 165 | | | 01 51 | 07 53 6 | 5 | |
| CRESCENT CITY FAA | 41 47 | 124 14 | 17 | | 45662 | 10 49 | 12 54 2 | 1 | 4 • 14 |
| CROWS LANDING NAS | 37 25 | 121 06 | 40 | | 1227 | 01 44 | 02 45 2 | 1 | 3.56 |
| DAGGETT FAA | 34 52 | 116 47 | 588 | | 87556 | 01 55 | 12 64 2 | 1 | 5 • 03 |
| DAVENPORT | 37 00 | 122 11 | 30 | | 7458 | 01 71 | 12 71 1 | 1 | 3.78 |
| DESERT CENTER | 33 45 35 13 | 115 20 | 165 | 10 | 6469 17228 | 06 43 05 73 | 03 44 2 | 1 | 3.34 |
| DIABLO CANYON | | 120 49 120 49 | | 76 | 17199 | 05 73 | 04 75 1 | 1 | 4.67 |
| DIABLO CANYON | 35 13 33 50 | | 9 | 7.6 | 97940 | 12 56 | 12 71 14 | 9 | 2.54 |
| DOMINGUEZ WATERBO DONNER SUMMIT | 33 50 | | 2193 | 9 | 43763 | 01 34 | 12 38 2 | 1 | 2004 |
| DOINGER SOWETT | 37 17 | 160 60 6 | 1 73 | 4 | 43/03 | 01 34 | 15 30 5 | 1 | |

^{1/} See explanation at end of table.

TABLE 1. WIND SUMMARIES AVAILABLE FOR CALIFORNIA (Continued)

| | | | (001102 | aca, | | | | |
|----------------------------|----------------|------------------|-----------|-------------|-----------------|----------------|--------------------|-------------------|
| STATION NAME | LAT | LONG | EL M | INST HGT | NO. OF OBS | START MO YR | END SU MO YR 1/ | TP MEAN 1/ MPS |
| DOWNEY 22 | 33 57 | 118 10 | 37 | 9 | 160585 | 05 53 | 12 74 14 | 9 1.91 |
| EDWARDS AFB | 34 55 | 117 54 | 706 | 4 | 86311 | 01 62 | 12 72 2 | 1 3.69 |
| EL CENTRO NAAS | 32 49 | 115 40 | -13 | | 121517 | 02 45 | 10 60 2 | 1 3.92 |
| EL MONTE 49 | | 118 02 | 85 | 9 | 69678 | 11 53 | 10 65 14 | 9 2.09 |
| EL TORO MCAS | 33 40 | 117 44 | 117 | 3 | 236944 | 01 45 | 12 72 2 | 1 2.45 |
| | 34 10 | 118 30 | 235 | 12 | 131556 | 12 57 | 12 72 14 | 9 1.91 |
| ESTRO | 35 26 | 120 32 | 9 | | 12722 | 01 31 | 12 36 2 | 1 2.05 |
| EUREKA HUB PP | 40 44 | 124 12 | 4 | | 17351 | 01 66 | 12 67 1 | 1 4.27 |
| EUREKA USWB | 40 48 | 124 10 | 13 | 27 | 14510 | 07 30 | 12 36 2 | 1 3.16 |
| FAIRVIEU HOSP 126 | 33 42 | 117 55 | 3 | B | 16656 | 02 72 | 12 73 14 | 9 1.29 |
| FONTANA 66 | 34 05 | 117 30 | 332 | 24 | 139747 | 01 53 | 03 73 14 | 9 5.70 |
| FORT BRAGG CASPER | 39 28 | 123 45 | 230 | 6 | 17271 | 01 43 | 05 45 2 | 1 3.38 |
| FORT ORD/FRITZSCH | E36 41 | 121 46 | 44 | 5 | 86943 | 04 60 | 12 70 2 | 1 2.89 |
| FRESNO AIR TERM | 36 46 | 119 43 | 100 | 6 | 181408 | 12 41 | 12 68 2 | 1 5.80 |
| FRESNO CHANDLER | 36 44 | 119 49 | 85 | | | | 76 9 | 7 |
| GEORGE AFB | 34 35 | 117 23 | 868 | 4 | | 01 42 | 12 72 2 | 1 3.78 |
| GLENDALE AAF | 34 09 | 118 18 | 141 | | 22379 | 06 43 | 12 45 2 | 1 2.23 |
| HAMILTON AFB | 38 04 | 122 31 | 4 | | 278159 | 39 | 70 2 | 1 2.45 |
| HAWTHORNE 120 | 33 54 | 118 06 | 23 | 9 | | 10 71 | 12 74 14 | 9 1.78 |
| HIGH POINT HOLLYWOOD 27 | 35 57 34 06 | 121 14 | 566 76 | | 54461 159529 | 64 01 55 | 70 5 12 72 14 | 1 9 1.82 |
| | - | 118 20 | | 12 | | | | |
| HOLLISTER NAS | 36 53 32 50 | 121 24 115 16 | 61 18 | | 1828 1703 | 07 42 | 02 45 8 | 6 1 1.87 |
| | 33 53 | 118 27 | 3 | 12 | 29749 | 01 57 | 06 60 14 | 9 3.43 |
| IMPERIAL BEACH NA | | 117 07 | 7 | | 167334 | 01 45 | 12 70 2 | 1 2.98 |
| INDIO-COACHELLA | 33 41 | 116 10 | -19 | | 27948 | 01 37 | 08 40 2 | 1 |
| JENNER AAB | 38 27 | 123 08 | 72 | | 13567 | 06 43 | 05 45 2 | 1 4.67 |
| JOLON | 36 00 | 121 14 | 317 | 3 | 60306 | 07 64 | 70 5 | i |
| KLAMATH FALLS KIN | G42 09 | 121 44 | 1247 | 4 | 154817 | 01 48 | 05 70 2 | 1 2.45 |
| LA CANADA FS 108 | 34 12 | 118 11 | 366 | 11 | 74990 | 05 65 | 12 73 14 | 9 1 • 47 |
| LA HABRA 99 | 34 10 | 117 57 | 91 | 8 | 119089 | 08 60 | 12 74 14 | 9 1.51 |
| LA VERN AP 94 | 34 05 | 117 47 | 305 | 11 | 137147 | 11 58 | 05 75 14 | 9 2.71 |
| LAGUNA BEACH WBO | 33 32 | 117 47 | 61 | | 43741 | 01 34 | 12 38 2 | 1 |
| LAKEVIEW ORE | 42 11 | 120 21 | 811 | | 12419 | 01 59 | 05 62 2 | 1 |
| LANCASTER 90 | 34 35 | 118 08 | 811 | 27 | 55943 | 10 57 | 05 64 14 | 9 3.69 |
| LANCASTER 129 | | 118 13 | 715 | 11 | 22307 | 05 74 | 12 76 14 | 9 5.65 |
| LAS VEGAS NEV | 36 05 | 115 10 | 573 | | 32928 | 34 | 38 2 | 1 4.01 |
| LEMOORE NAS | 36 20 | 119 57 | 73 | 3 | 95872 | 07 61 | 06 70 2 | 1 2.40 |
| LIVERMORE LLL | 37 41 | 121 46 | 149 | | 7061 | 04 71 | 03 72 3 | 1 4.20 |
| LIVERMORE 10 SSE | 37 38 | 121 30 | 171 | | 7061 43692 | 01 71 | 12 71 3 | 1 8.00 |
| LIVERMORE USWR | 37 42 37 40 | 121 48 | 134 | 9 | HRLY | 01 34 | 12 38 8 | 3 6.32 |
| LIVERMORE 300 WOP | 33 49 | 121 33 | 13 | 6 | 163549 | 01 49 | 12 72 2 | 1 2.49 |
| LOS ALAMITOS NAS | 33 48 | 118 03 | 8 | 4 | 171926 | 01 49 | 12 69 2 | 1 2.45 |
| LOS ANGELES WB 39 | | 118 14 | 82 | 58 | 127007 | 08 50 | 06 64 14 | 9 2.67 |
| LOS ANGELES WEAS | 33 56 | 118 23 | 37 | 6 | 153295 | 01 47 | 06 65 2 | 1 2.98 |
| LOS ANGELES CAP75 | | 118 14 | - | 26 | 174169 | | 12 76 14 | 9 5.3 |
| | | | | | | - 55 | | |

^{1/} See explanation at end of table.

TABLE 1. WIND SUMMARIES AVAILABLE FOR CALIFORNIA (Continued)

| | | | , | | | | | |
|--------------------------------------|----------------|------------------|---|-------------|----------------|----------------|--------------------|-------------------|
| STATION NAME | LAT | LONG | EL M | INST HGT | NO. OF OBS | START MO YR | END SU MO YR 1/ | TP MEAN 1/ MPS |
| LOS ANGELES CC 10 | 334 05 | 118 18 | 152 | 14 | 96105 | 04 63 | 12 74 14 | 9 2.36 |
| LOS ANGELES 118 | | 118 18 | 15 | - 9 | 30240 | 04 71 | 12 74 14 | 9 1.91 |
| LOS ANGELES NORME | | 118 18 | 30 | 12 | 95824 | 01 55 | 03 67 14 | 9 2.58 |
| LOS ANGFLES PICOZ | | 118 22 | 30 | 12 | 142099 | 01 55 | 12 71 14 | 9 2.05 |
| LOS ANGFLES SP 68 | 34 06 | 118 14 | 60 | a | 16884 | 03 56 | 08 61 14 | 9 1.91 |
| LOS ANGELES UCLAZ | 834 04 | 118 27 | 131 | 15 | 26387 | 04 54 | 05 59 14 | 9 1.56 |
| LOS BANOS | 37 04 | 120 53 | _ | 11 | 8496 | 04 74 | 03 75 1 | 1 4.90 |
| LYNWOOD 130 | 33 55 | 118 12 | 35 | 11 | 9240 | 12 74 | 12 74 14 | 9 2.00 |
| MALIBU FS 104 | 34 02 | 118 42 | 3 | 9 | 93360 | 12 63 | 12 74 14 | 9 2 23 |
| MCCLELLEN AFB | 38 40 | 121 24 | 26 | 4 | 283884 | 39 | 12 72 2 | 1 3 • 25 |
| MEDFORD ORE | 42 22 | 122 52 | 404 | | 2920 | | 74 2 | 1 2.09 |
| MILPITAS | 36 04 | 121 19 | 366 | 3 | | 65 | 70 5 | 1 |
| MIRAMAR NAS | 32 52 | 117 08 | 144 | 7 | 212054 | 07 47 | 06 72 2 | 1 2.27 |
| MISSION HILLS 113 | | , | | 9 | 70114 | 12 66 | 12 74 14 | 9 2.23 |
| MODESTO CAA | 37 38 | 120 58 | 29 | | 15321 | 01 40 | 09 41 2 | 1 |
| MOJAVE NAS | 35 07 | 118 09 | 842 | | 32291 | 04 45 | 09 58 2 | 1 |
| MONTAGUE FAA | 41 46 | 155 58 | 803 | 6 | 152521 | 10 53 | 12 65 2 | 1 2.71 |
| MONTEREY NAF | 36 36 | 121 52 | 51 | 2 | 154998 | 01 45 | 12 69 2 | 1 2.49 |
| MONTEZUMA | 38 05 | 121 49 | 3 | | 7417 | 05 70 | 04 71 1 | 1 5.12 |
| | 34 12 | 118 14 | 366 | 9 | 44823 | 03 53 | 03 62 14 | 9 2.27 |
| MOSS LANDING | 36 48 | 121 46 | | | 33589 | 03 69 | 02 72 1 | 1 4.01 |
| MT SHASTA CAA | 41 17 | 155 18 | 988 | | 37577 | 01 34 | 12 38 2 | 1 |
| MT_VACA | 38 24 | 122 06 | _ | | 15103 | 11 72 | 10 74 1 | 1 6.54 |
| NAPA | 38 13 | 122 17 | 17 | | 19547 | 66 | 68 6 | 5 |
| NEEDLES | 34 46 | 114 37 | 280 | | 43794 | 69 | 74 2 | 1 3.78 |
| NELLIS AFB | 36 15 | 115 02 | 573 | | 230638 | 03 42 | 12 72 2 | 1 2.98 |
| NEWHALL 115 | | 118 33 | 387 | | 54443 | 09 69 | 12 75 14 | 9 1.65 |
| NEWPORT BEACH 63 | | 117 54 | 3 | | 147531 | 08 54 | 12 74 14 | 9 2.31 |
| NORTON AFB | 34 06 | 117 15 | 335 | | 259005 | 01 43 | 12 72 2 | 1 1.78 |
| NORTHRIDGE CSU 83 NO HOLLYWOOD 43 | | 118 32 118 25 | 261 274 | 8 | 83768 82539 | 01 57 06 55 | 09 66 14 | 9 1.69 |
| NO HOLLYWOOD 43 | 34 10 33 55 | | 30 | | 23781 | 07 52 | , , | 9 1.96 |
| OAKLAND AP | 37 44 | 118 04 | 5 | | 87672 | 01 51 | | |
| OCEANSIDE CAA | 33 13 | 117 21 | 8 | | 43761 | 01 34 | 12 60 2 12 38 2 | |
| ONTARIO | 34 03 | 117 36 | 280 | | 23378 | 49 | 55 2 | 1 4.05 |
| OROVILLE RS | 39 32 | 121 34 | 91 | | 23310 | 07 68 | 07 72 2 | 5 |
| OXNARD AFB | 34 13 | 119 04 | 25 | | 143280 | 04 44 | 12 67 2 | 1 2.27 |
| PALMDALE AP | 34 38 | 118 05 | 768 | | 109166 | 11 48 | 73 2 | 1 4.49 |
| PALM SPRINGS AAF | 33 54 | 116 33 | 128 | | 24286 | 05 43 | 02 46 2 | 1 3.92 |
| PALO VERDES 1 | 33 45 | 118 10 | 457 | | 12941 | 09 54 | 12 57 14 | 9 3.07 |
| PASADENA FDEC3110 | | 11- 10 | 240 | | 92230 | 06 59 | 03 70 14 | 9 1.38 |
| PASO ROBLES AP | 35 40 | 120 38 | 246 | | 141450 | 48 | 64 2 | 1 2.08 |
| PESCADERO | 37 12 | 122 22 | 141 | | 11513 | 06 43 | 09 44 2 | 1 4.94 |
| PITTSBURG DOW | 38 01 | 121 51 | 3 | 8 | | 67 | 76 8 | 1 3.12 |
| PITTSBURG POWER P | L38 04 | 121 54 | 6 | 10 | 23568 | 12 70 | 11 73 1 | 1 4.49 |
| POINT ARENA CG | 38 55 | 123 43 | 79 | | 8251 | 01 37 | 02 42 2 | 1 6.27 |
| POINT ARENA | 38 56 | 123 42 | 73 | 5 | | 08 70 | 07 72 1 | 1 6.23 |
| | | | | | | | | |

^{1/} See explanation at end of table.

TABLE 1. WIND SUMMARIES AVAILABLE FOR CALIFORNIA (Continued)

| STATION NAME | LAT | LONG | EL | INST | NO. OF | START MO YR | END SU MO YR 1/ | TP 1/ | MEAN MPS |
|------------------------|----------------|------------------|------|------|----------------|----------------|---------------------|-------|-------------|
| | | L | | HGT | | | | 1-/ | MPS |
| POINT ARGUELLO | 34 35 | 120 38 | 113 | | 35036 | 59 | 63 2 | 1 | |
| POINT FERMIN | 33 43 | 118 17 | 11 | | 9392 | | 09 42 2 | 1 | 2.94 |
| POINT HUENEME | 34 09 | 119 12 | 5 | | 7120 | 08 38 | 12 41 2 | 1 | 3.29 |
| POINT MONTARA | 37 32 | 122 31 | 20 | | 10829 | 02 38 | 11 41 2 | 1 | 3.56 |
| POINT MUGU | 34 07 | 119 07 | 4 | 4 | 109069 | 64 | 72 2 | 1 | 2.89 |
| POINT PIEDRAS BLAN | | 121 17 | 21 | 5 | 6525 | 06 38 | 02 42 2 | 1 | 4.76 |
| POINT REYES | 38 00 | 123 00 | 79 | | 12466 | 02 38 | 02 42 2 | 1 | 3.52 |
| PAMONA APCO 109 | 34 04 | 117 45 | 259 | 11 | 83455 | 06 65 | 12 74 14 | 9 | 1 • 42 |
| POTERRO HILL PUENTE 48 | 38 12 34 01 | 121 58 117 59 | 126 | | 34938 38763 | 01 35 02 55 | 12 38 2 | 9 | . 20 |
| RANCHO SECO | 38 34 | | 52 | 11 | 25893 | | | | 1.38 |
| REDDING WBAS | 40 34 | 121 07 | 220 | 10 | 79033 | 01 74 | 12 76 15 12 38 2 | 1 | 3.23 |
| REDONDO KING - 12 | | 118 24 | 3 | 11 | 74436 | 04 66 | 12 74 14 | 9 | 2.80 |
| RENO AP | 39 30 | 119 47 | 1342 | 11 | 43848 | 01 56 | 10 59 2 | í | 2.63 |
| RENO STEAD AFR | 39 40 | 119 52 | 1541 | 4 | 140000 | 12 57 | 03 66 2 | î | 3.03 |
| RESEDA 107 | | 118 32 | 226 | 11 | 84084 | 05 65 | 12 74 14 | 9 | 1.34 |
| RICE AFR | 34 04 | 114 50 | 269 | - 1 | 3477 | 06 43 | 03 44 2 | 1 | 3.69 |
| RIVERA 81 | 33 58 | 118 06 | 46 | 9 | 154626 | 01 57 | 12 74 14 | 9 | 1.91 |
| RIVERSIDE/MARCH | 33 54 | 117 15 | 466 | | 286219 | 01 33 | 12 67 2 | 1 | 2.31 |
| SACRAMENTO EX AP | 38 21 | 121 30 | 5 | 6 | 87672 | 01 56 | 12 60 2 | ï | 4.14 |
| SACRAMENTO/MATHER | 38 34 | 121 18 | 29 | 4 | 227840 | 04 56 | 12 67 2 | 1 | 3.07 |
| SALINAS AAR | 36 40 | 121 72 | 22 | | 28775 | 08 41 | 12 44 2 | ī | 3.60 |
| SAM JONES | 35 53 | 121 08 | 445 | 3 | 52755 | 65 | 70 5 | 1 | |
| SAN CLEMENTE IS | 32 57 | 118 32 | 276 | 5 | 78600 | 63 | 72 2 | 1 | 3.25 |
| SANDBERG | 34 45 | 118 44 | 1377 | 9 | 59682 | 01 32 | 12 38 2 | 1 | 6.81 |
| SAN DIEGO NAS | 32 42 | 117 12 | 7 | 9 | 238011 | 01 45 | 12 72 2 | 1 | 2.71 |
| SAN DIEGO LINDBERG | 332 44 | 117 10 | 6 | 6 | 87672 | 01 51 | 15 60 5 | 1 | 5.80 |
| SAN DIMAS 59 | 34 12 | 117 48 | 290 | 9 | 18651 | 03 53 | 03 59 14 | 9 | •98 |
| SAN FERNANDO 45 | 34 17 | 118 27 | 359 | A | 34777 | 09 55 | 02 60 14 | 9 | 2.09 |
| SAN FRAMCISCO AP | 37 37 | 122 23 | 27 | 6 | 150260 | 4.8 | 12 65 2 | 1 | 4 • 85 |
| SAN JOSE | 37 22 | 121 55 | 17 | | 87648 | 01 37 | 12 47 2 | 1 | |
| SAN LUIS OBISPO | 35 15 | 120 40 | 61 | | 17786 | 05 51 | 04 56 2 | 1 | |
| SAN MIGUEL ISLAND | 34 03 | 120 21 | 168 | | 3440 | 02 40 | 06 42 2 | 1 | 7.21 |
| SAN NICOLAS ISLAND | | 119 28 | 153 | 4 | 112227 | 01 45 | 12 72 2 | 1 | 5.07 |
| SAN PABLO | 37 59 | 155 51 | 79 | | 18487 | 07 29 | 02 39 8 | 6 | 3.52 |
| SANTA ANA OCAP 65 | 33 40 | 117 53 | 47 | 9 | 68841 | 02 55 | 01 72 14 | 9 | 2.00 |
| SANTA ANA MCAF | 33 42 | 117 50 | 19 | 3 | 130408 | 60 | 12 72 2 | 1 | 2.36 |
| SANTA BARBARA CAA | 34 26 | 119 50 | 4 | | 43795 | 60 | 64 2 | 1 | 3.92 |
| SANTA CATALINA AV | 33 55 | 118 29 | 135 | | 6308 | 06 43 | 02 44 2 | 1 | 2.89 |
| SANTA CATALINA BS | 33 24 | 119 21 | 498 | | 7522 | 07 39 | 02 42 2 | 1 | |
| SANTA MARIA | 34 57 | 120 25 | 70 | 12 | 17544 | 01 48 | 12 58 2 | 1 | 3.12 |
| SANTA ROSA AAS | 38 25 | 122 45 | 32 | | 23718 | 04 43 | 12 45 2 | 1 | 2.58 |
| SANTA ROSA ISLAND | 33 55 | 120 07 | 455 | | 6261 | 06 43 | 02 44 2 | 1 | 7.48 |
| SAUGUS CAA | 34 24 | 118 33 | 368 | | 43747 | 01 34 | 12 38 2 | 1 | |
| SAUGUS SCE 91 | | 118 32 | 355 | 14 | 112820 | 03 58 | 08 71 14 | 9 | 2.31 |
| SILVER LAKE | 35 20 | 116 06 | 276 | | 8732 | 08 40 | 07 41 2 | 1 | |

^{1/} See explanation at end of table.

TABLE 1. WIND SUMMARIES AVAILABLE FOR CALIFORNIA (Continued)

| STATION | LAT | LONG | EL | INST | NO. OF | START | END SU | TP | MEAN |
|-------------------|---------|--------|-------|------|--------|-------|-----------|----|--------|
| NAME | mai | LONG | M | HGT | OBS | MO YR | MO YR 1/ | 1/ | MPS |
| | D/ 0 05 | / | | | 12776 | | 38 8 | , | |
| SISKIYOU SUMMIT O | | 122 34 | 1371 | | 43774 | 34 | | 6 | |
| SLIDE MTN+NEVADA | 38 18 | 119 53 | 2941 | 2 | 12137 | 01 68 | 12 70 16 | 1 | 8.38 |
| SOUTHEAST FARALLO | | 123 00 | 12 | | 16646 | 06 35 | 06 42 8 | 6 | 4.54 |
| STOCKTON | 37 54 | 121 15 | 8 | | 47320 | 01 41 | 12 45 2 | 1 | 3.52 |
| SUN VALLEY 44 | | 118 22 | 305 | | 34400 | 08 52 | 06 60 14 | 9 | 2.49 |
| SUNNYVALE MOFFETT | 37 25 | 122 03 | 6 | | 238814 | 01 45 | 12 72 2 | 1 | 2.71 |
| SUSANVILLE | 40 23 | 120 33 | 1265 | | 4134 | 03 37 | 02 40 8 | 6 | |
| TAFT GARDENER FLD | 35 07 | 119 18 | 133 | | 28266 | 12 41 | 02 45 2 | 1 | 2.31 |
| TEHACHAPI | 35 08 | 116 26 | 1210 | | 18706 | 11 42 | 12 44 2 | 1 | 3.74 |
| TEMPLE CITY 50 | 34 07 | 118 03 | 122 | 12 | 26780 | 06 56 | 06 60 14 | 9 | 2.40 |
| TERMINAL ISLAND 5 | 33 46 | 118 13 | 3 | 15 | 164901 | 08 52 | 12 74 14 | 9 | 3.07 |
| THE GEYESERS | 38 50 | 122 37 | 509 | | 13844 | 11 72 | 10 74 1 | 1 | 5.07 |
| THERMAL FAA | 33 38 | 116 10 | -35 | | 43823 | 01 57 | 12 61 2 | 1 | |
| TORRANCE 9 | 33 53 | 118 18 | 3 | | 117569 | 08 52 | 09 70 14 | 9 | 1.96 |
| TRAVIS AFR | 38 16 | 121 56 | 18 | 4 | 254948 | 43 57 | 12 72 2 | 1 | 5.30 |
| TWENTY NINE PALMS | | 116 02 | 542 | | 6567 | 07 42 | 03 43 2 | 1 | 2.85 |
| UKIAH | 39 07 | 123 17 | 427 | | 87495 | 01 55 | 12 64 2 | 1 | 3.38 |
| VALENCIA 121 | | | | Я | 25176 | 10 71 | 12 74 14 | 9 | 2.31 |
| VANDENBERG AFR | 34 43 | 120 34 | 116 | 4 | 115324 | 51 | 12 70 2 | 1 | 3.12 |
| | T34 43 | 120 37 | 24 | | 9313 | 66 | 67 2 | ī | 4 • 05 |
| VAN NUYS ANGE | 34 13 | 118 30 | 242 | | 237378 | 10 61 | 08 62 2 | i | 2.00 |
| VAN NUYS LAVE 105 | | 118 26 | 216 | | 28665 | 03 64 | 08 67 14 | ĝ | 1 • 38 |
| VENICE 14 | | 118 29 | 2 1 3 | | 150177 | 08 54 | 12 73 14 | 9 | 2.89 |
| VISALIA | 36 20 | 118 17 | 108 | | 8783 | 01 32 | 12 32 2 | í | 2.0, |
| | | 117 51 | 163 | | 77901 | 01 65 | 12 73 14 | 9 | 2.18 |
| WALNUT LACED 106 | | | 70 | | 11401 | 03 74 | 02 75 28 | í | 2.10 |
| WASCO | 35 44 | 119 32 | | | | 03 74 | | | |
| WASCO | 35 44 | 119 32 | 70 | _ | 25020 | | | 1 | . 47 |
| W LOS ANGELES 102 | | 118 26 | 27 | | 95838 | 11 62 | .12 73 14 | 9 | 1.47 |
| WILLIAMS | 39 06 | 155 09 | | | 43777 | 01 34 | 12 38 2 | 1 | 0 45 |
| WILMINGTON 4 | | 118 16 | 3 | | 44392 | 01 53 | 02 61 14 | 9 | 2.45 |
| WILMINGTON REF 6 | | | 3 | | 28003 | 11 51 | 02 59 14 | 9 | 1.60 |
| WHITTIER 114 | | 118 02 | 107 | | 38705 | | 12 73 14 | 9 | 1.74 |
| YUMA AP ARIZONA | 32 40 | 114 36 | 63 | 6 | 160705 | 49 | 71 2 | 1 | 3.43 |

FOOTNOTES ARE LOCATED AT THE END OF TABLE 2

TABLE 2. NONSUMMARIZED WIND RECORDS FOR 372 CALIFORNIA STATIONS

| STATION NAME | LAT | LONG | EL M | INST HGT | NO.OF OBS | START MO YR | END SU TP MO YR 1/ 1/ |
|-----------------------------|----------------|------------------|-------------|-------------|--------------|----------------|--------------------------|
| AIRLINE | 36 35 | 121 42 | | 10 | | 08 72 | 08 73 21 08 |
| ANACAPA ISLAND | 34 01 | 119 22 | 52 | | | 01 46 | 01 76 9 7 |
| ANAHEIM 31 | 33 48 | 117 51 | 229 | 9 | 1772 | 09 52 | 03 58 14 9 |
| ARROYO DEL VALLE | 37 33 | 121 40 | 195 | | | | 13 |
| ARROYO GRANDE | 35 16 | 120 40 | - | 10 | | 05 74 | 10 76 21 08 |
| ARVIN-EDISON ASD | 35 19 | 118 56 | | 1.0 | | 08 75 | 08 77 22 08 |
| ATWATED | 37 21 | 120 36 | 48 | | | 08 30 | 09 33 9 7 |
| AVALON | 33 20 | 118 20 | 3 | | | 01 61 | 12 68 9 7 |
| AVON POWER PLANT | 37 24 | 121 56 | 3 | | | | 13 |
| AZUSA 60 | | 117 56 | 190 | | 5366 | 09 55 | 03 62 14 9 |
| BAKERSFIELD CC | 35 24 | 118 56 | | 1.0 | | 08 75 | 08 77 22 08 |
| BAKERSFIELD CHEST | | 119 01 | | 10 | | 08 75 | 08 77 22 08 |
| BAKERSFIELD ST CO | | 119 06 | | 10 | | 08 75 | 08 77 22 08 |
| BALDY MESA | 34 20 | 117 20 | 1113 | | | 05 30 | 01 34 9 7 |
| BARCROFT LAB | 37 35 34 31 | 118 14 | 3801 893 | | 2798 | | 27 7 65 2 1 |
| BEAR VALLEY BEAUMOUNT | 33 56 | 116 57 | 792 | | 2190 | 60 05 29 | 76 9 7 |
| BENECIA ACPO | 38 03 | 122 09 | 12 | | | 02 70 | 07 76 10 7 |
| BERKELEY CT | 37 52 | 122 19 | 2 | | | 06 74 | 07 76 11 8 |
| BERKELEY ST HEA D | | 122 18 | 10 | | | | 13 |
| BLAIRSDEN CT | 39 46 | 120 36 | 1341 | 10 | | 09 73 | 03 74 18 8 |
| BLUNTS REEF CG | 40 26 | 124 30 | 8 | | | 49 | 76 9 7 |
| BODEGA BAY | 33 19 | 123 03 | 3 | | | | 76 9 7 |
| BONITA | 32 39 | 117 11 | | 10 | | 03 73 | 05 74 26 08 |
| BROWN FIELD | 32 34 | 116 59 120 12 | 155 | 10 | | 12 72 01 75 | 11 73 26 08 |
| BUELLTON | 34 36 | | | 10 | | | 10 76 21 08 |
| BURBANK APCD 100 | | 118 29 | 189 | | 11029 | 04 62 | 12 74 14 9 |
| BURLINGAME ACPD | 37 35 | 155 51 | 12 | | | 03 73 | 07 76 10 7 |
| BURNEY | 40 53 | 121 40 | 953 | | | 06 42 | 76 9 7 |
| CAMARILLO | 34 17 | 119 03 | 128 | | | 02 72 | 03 73 32 8 |
| CABRILLO BEACH | 33 43 | 118 17 | 9 | | | 05 74 | 76 9 7 09 77 32 8 |
| CAMARILLO CT 36 | 34 13 34 18 | 119 01 117 28 | 37 933 | | | 05 74 | 09 77 32 8 06 46 9 7 |
| CAJON HMS | 34 19 | 117 29 | 951 | | | 09 73 | 08 77 23 8 |
| CAMP KEARNEY | 32 52 | 117 07 | 146 | | | 08 42 | 04 45 9 7 |
| CAMPBELL CT | 37 15 | 121 57 | 82 | | | 02 72 | 04 73 11 8 |
| CAMPO | 32 37 | 116 28 | 802 | | | 01 50 | 76 9 7 |
| CAPELL SCH CT | 38 23 | 122 12 | 250 | | | 06 73 | 11 74 11 8 |
| CARLSBAD | 33 08 | 117 17 | 100 | | | 08 59 | 76 9 7 |
| CARMEL | 36 36 | 121 54 | | 10 | | 07 74 | 11 76 21 08 |
| CARMEL | 32 56 | 117 14 | | 10 | | 06 73 | 09 74 26 08 |
| CARQUINEZ BG | 38 04 | 122 14 | 100 | | | 03 29 | 05 31 9 7 |
| CARSON 189 HARBOR | | 118 16 | 6 | • 0 | | 06 73 | 09 77 32 8 |
| CASITAS | 34 23 | 119 23 | | 10 | | 04 75 | 03 76 21 08 |
| CASPER FIELD CASTROVILLE | 39 28 36 46 | 123 45 | 229 | | | 06 43 | 05 45 9 7 |
| | | | | | | | |

 $[\]underline{1}$ / See explanation at end of table.

TABLE 2. NONSUMMARIZED WIND RECORDS FOR 372 CALIFORNIA STATIONS (Continued)

| | | | | | | | | | | | _ |
|---------------------------|------|----|------------|----------|-----------------|-------------|--------------|----------------|-------------|------|----|
| STATION NAME | LAT | | LON | G | EL M | INST HGT | NO.OF OBS | START MO YR | END MO Y | 1 | 1 |
| CATALINA ISLAND | 33 2 | 4 | 118 | 25 | 482 | | | | 76 | 9 | 7 |
| CHATSWORTH CT | | | 118 | 25 | 366 | 1.0 | | 04 72 | 03 75 | | 8 |
| CHECK 42 | | | 118 | 35 | 945 | 10 | | 05 76 | 03 /: | 12 | 7 |
| | - | - | | - | 83 | | | _ | 76 | | 7 |
| CHICO | - | - | 121 | 51 | 03 | | | | | | 08 |
| CHINA GRADE | | | 118 | 59 | | 10 | | 08 75 | 08 7 | | 7 |
| CHINO | | | 117 | 38 | 211 | | | 06 30 | | | |
| CHINO CT | | | 117 | 39 | 192 | 10 | | 06 75 08 73 | 09 7 | | 8 |
| CHP | | | 121 117 | 41 | 411 | 10 | | 08 73 03 73 | 12 74 | | 80 |
| CLAREMONT BASELINE | | | 120 | 22 | 206 | 11) | | 05 28 | 06 5 | | 7 |
| COALINGA COLTON | | | 117 | 18 | 294 | 11 | | 06 75 | 08 7 | | 8 |
| COMPTON CT 45 | | | 118 | 11 | 18 | 10 | | 04 76 | 10 76 | | 8 |
| CONCORD ACPD | - | | 122 | 01 | 32 | 18 | | 02 70 | 07 7 | | 7 |
| CONCORD BUCHANAN | | | 122 | 03 | 7 | 10 | | 06 28 | 76 | | 7 |
| CONCORD PSS | | | 122 | 01 | 12 | | | 00 20 | 7 | | 7 |
| CONTRA COSTA PP | | | 121 | 47 | 3 | | | | - '' | 13 | ' |
| CORNING | | - | 122 | 10 | 87 | | | 33 | 36 | | 7 |
| COSTA MESA CT | | | 117 | 56 | 30 | 10 | | 09 72 | 04 7 | | 8 |
| CRAZY HORSE | | | 121 | 38 | 30 | 10 | | 12 72 | 10 7 | - | 08 |
| CREST VIEW HMS | | | 118 | 58 | 2438 | 10 | | 04 74 | 05 75 | | 8 |
| CROCKETT ACPD | | | 122 | 07 | 84 | 7 | | 02 70 | 07 7 | - | 7 |
| | | | 118 | 11 | 3094 | , | | UE 10 | 0/// | 27 | 7 |
| CROOKED CREEK LAB | - | - | - | _ | | | | 07 63 | | _ | 7 |
| CUDDEBACK | | 6 | 117 | 26 | 864 | | | | 12 6 | | |
| CULVER CITY CT 21 | | 9 | 118 | 55 | 76 9 | 10 | | 12 72 | 03 7 | | 8 |
| CULVERCITY CT 20 | | 0 | 118 | 25 | | 10 | | 12 72 | 09 7 | | 8 |
| CUPERTINO CT | | 0 | 122 | 03 | 82 | 9 | | 12 71 | 04 7 | | 8 |
| DAVIS POINT | | - | 122 | 16 | 18 | | | 00.0 | 70 | | 7 |
| DELTA DELTA PUMP PLANT | | 7 | 122 | 26 41 | 366 8 | | | 02 40 74 | 09 4 | 12 | 7 |
| DIDO-ESCONDIDO | - | | 117 | 06 | 0 | 1.0 | | 06 73 | 12 7 | | 08 |
| DONNER SUMIT | | | 120 | 20 | 2193 | 10 | | 12 29 | 12 7 | | 7 |
| EAST SAN FRANCISC | | 4 | 122 | 21 | 8 | 14 | | 02 70 | 07 7 | | 7 |
| DEVERS SUBSTATION | | 6 | 116 | 33 | 274 | 14 | | 02 /0 | 01 1 | 9 10 | ' |
| EL CENTRO NAS | | 0 | 115 | 40 | 217 | 10 | | 01 55 | 10 6 | 0 26 | 08 |
| EL SERENO CT | | 15 | 118 | 10 | 152 | 10 | | 07 72 | 01 7 | | 8 |
| EL MONTE AP 111 | - | 5 | 118 | 02 | 101 | 11 | 4898 | 10 65 | 08 7 | | 9 |
| EL SEGUNDO SCE 85 | | 5 | 118 | 26 | 3 | - 1 | 2914 | 01 56 | 06 6 | | 9 |
| ERRECA | | 2 | 117 | 01 | | 10 | 2714 | 06 73 | 03 7 | | 08 |
| ETIWANDA CT | | 8 | 117 | 33 | 104 | 10 | | 06 75 | 09 7 | | 8 |
| FAIR OAKS | | 39 | 121 | 18 | 52 | 10 | | 01 76 | 01 7 | | 08 |
| FAIRFIELD CT | | 3 | 122 | 08 | 2 | 10 | | 06 73 | 01 7 | | 8 |
| FELICITA | |)6 | 117 | 05 | - | 10 | | 03 73 | 03 7 | | 08 |
| FILLMORE CT 23 | | 4 | 118 | 56 | 119 | 10 | | 03 73 | 05 7 | - | 8 |
| FONTANA | - | 6 | 117 | 25 | 396 | - 0 | | 05 73 | 11 4 | _ | 7 |
| FORT BRAGG | | 7 | 123 | 48 | 23 | | 7612 | 01 37 | 11 4 | | 6 |
| FORT JONES | - | 32 | 122 | 52 | 833 | | ,012 | 11 39 | 12 4 | _ | 7 |
| Jone Jone J | 71 | _ | 100 | 32 | 000 | | | | 15 4 | . ′ | , |
| | | | | | | | | | | | |

^{1/} See explanation at end of table.

TABLE 2. NONSUMMARIZED WIND RECORDS FOR 372 CALIFORNIA STATIONS (Continued)

| STATION NAME | LAT | LONG | EL M | INST HGT | NO.OF OBS | START MO YR | END SU TP MO YR 1/ 1/ |
|---|--|--|---|---------------------------------|--------------|---|--|
| FREMONT ACPD FREMONT CT FRESNO FRESNO DORABELLA FRESNO HAMMER F FRESNO HAMS FRESNO TRR DIST FRESNO SAAW AVE FRESNO ST UN FRESNO 41/99 FRESNO 168/720 FRESNO | 37 32 37 34 36 46 7137 07 36 46 36 49 36 49 36 49 37 04 37 04 37 05 36 49 37 04 37 05 37 01 37 0 | 121 58 121 57 119 43 119 42 119 46 119 50 119 45 119 45 119 45 119 42 117 58 116 58 121 30 118 08 118 16 121 30 118 16 114 43 122 29 118 32 117 13 | 30 101 102 30 113 55 52 372 137 791 332 | 8 9 10 10 10 10 10 10 10 6 9 10 | OBS 35416 | 02 70 01 72 88 08 74 12 41 08 75 08 75 10 75 08 75 06 74 06 74 08 75 06 61 05 72 06 72 12 73 06 72 12 73 06 72 11 72 | 07 76 10 7 07 76 11 8 76 9 7 06 75 22 08 12 45 2 1 10 76 22 08 10 76 22 08 10 76 22 08 10 76 22 08 02 77 22 08 02 77 22 08 02 77 22 08 06 75 22 08 10 76 22 08 76 9 7 04 73 26 08 07 76 11 8 02 75 32 8 09 77 61 11 8 02 75 32 8 09 77 32 8 09 77 32 8 09 77 73 26 08 07 77 32 8 08 77 32 6 08 07 77 32 6 08 07 77 32 6 08 |
| HALF MOON BAY HALF MOON BAY HARBOR CITY PCH HAWTHORNE HAYWARD HERCULES CT HIGHLAND PARK CT HIGHLAND PARK 31 MOLLISTER HOLLISTER HOLLYWOOD + VINE HOT SPRINGS CPEEK HUMBOLDT BAY | 37 30 37 28 37 28 33 46 33 55 37 39 38 01 34 07 36 53 36 54 34 06 37 00 | 122 30 122 26 122 26 118 18 118 20 122 07 122 17 118 08 118 14 121 24 121 22 118 19 118 50 124 14 | 11 9 19 19 15 8 174 140 114 140 1829 3 | 10 | | 06 48 10 71 09 72 01 63 05 73 04 73 12 73 08 29 02 75 12 73 | 12 68 9 7 07 76 11 8 13 04 74 32 8 76 9 7 76 9 7 06 76 11 8 01 75 32 8 02 75 32 8 08 59 9 7 08 77 21 08 02 75 32 8 76 3 8 76 9 7 |
| HUNTERS POINT PP IMPERIAL FAA INDEPENDENCE JACKASS FLAT NEV JACUMBA JAMACHA KEELER KERN CO MAINT YD | 37 43 32 50 36 48 36 49 32 38 32 45 36 35 35 19 | 122 22 115 34 118 12 116 16 116 11 116 56 117 50 119 02 | 3 15 1202 1130 873 | 29 | | 03 59 94 05 56 01 32 09 73 91 08 75 | 13 76 9 7 12 44 9 7 02 62 7 1 03 39 9 7 04 75 26 08 94 9 7 08 77 22 08 |

^{1/} See explanation at end of table.

TABLE 2. NONSUMMARIZED WIND RECORDS FOR 372 CALIFORNIA STATIONS (Continued)

| STATION | LAT | LONG | EL | INST | NO.OF | START | END SU TP |
|-------------------|----------------|------------------|------|------|--------|-------|-------------|
| NAME | | | М | HGT | OBS | MO YR | MO YR 1/ 1/ |
| KEDMUT = | 25 / 2 | | 0.7 | | | .0 | |
| KERNVILLE | 35 43 | 118 27 | 1087 | | | 09 38 | 04 47 9 7 |
| KEYES CT | 37 34 | 120 55 | 30 | 10 | | 04 73 | 09 77 25 8 |
| KING CITY | 36 13 | 121 08 | 117 | | | 06 58 | 04 47 9 7 |
| KIRKWOOD NORTH | 38 42 | 120 05 | 2200 | 5 | | 01 74 | 12 74 29 9 |
| KIRKWOOD NORTH | 38 42 | 120 05 | 5500 | 15 | | 01 74 | 12 74 29 9 |
| KIRKWOOD SOUTH | 38 42 | 120 05 | 2200 | 5 | | 01 74 | 12 74 29 9 |
| KIRKWOOD SOUTH | 38 42 | 120 05 | 2200 | 15 | | 01 74 | 12 74 29 9 |
| LANCASTER 117 | 34 41 | 118 08 | 719 | 30 | 39223 | 07 70 | 12 74 14 9 |
| LANÇASTER | 34 45 | 118 13 | 716 | 9 | | 10 59 | 12 68 9 7 |
| LANCASTER | 34 44 | 118 13 | 715 | | | | 76 9 7 |
| LAVERNE | 34 05 | 117 47 | 305 | | | 07 65 | 76 9 7 |
| LEBEC | 34 50 | 118 52 | 1090 | | | 07 29 | 03 32 9 7 |
| LINDA VISTA | 32 53 | 117 05 | 152 | | | 08 36 | 05 40 9 7 |
| LINDBERGH FIELD | 32 44 | 117 11 | 4 | 10 | | 01 59 | 12 68 26 08 |
| LITTLE ANTELOPE V | A37 01 | 118 53 | 2286 | 10 | | 75 | 76 3 8 |
| LITTLE RIVER | 39 16 | 123 45 | 174 | | | 01 51 | 12 56 9 7 |
| LIVERMORE 300 ECF | 37 39 | 121 32 | 366 | 9 | HRLY | 10 72 | 09 73 3 4 |
| LIVERMORE APCD | 37 41 | 121 47 | 146 | 7 | | 02 70 | 07 76 10 7 |
| LONG BEACH APCDIO | | 118 11 | 18 | 12 | 104217 | 11 62 | 12 74 14 9 |
| LOS ANGELES 74 | | 118 16 | | 9 | 14469 | 03 61 | 10 62 14 9 |
| LOS ANGFLES | 34 03 | 118 27 | 94 | , | 1440 | 877 | 76 9 7 |
| LOS ANGELES CT 43 | | 118 19 | 61 | 10 | | 06 75 | 09 77 32 8 |
| LOS ANGELES CT 44 | | 118 18 | 61 | 10 | | 02 75 | 10 76 32 8 |
| LOS ANGELES MLD 2 | | 118 18 | 30 | 11 | 29659 | 12 52 | 08 59 14 9 |
| LOS ALAMITOS NASA | | 118 03 | 8 | 4 | 96277 | 08 52 | 02 71 14 9 |
| LOS BANOS | 37 06 | 120 51 | 31 | * | 70211 | 05 28 | 08 36 9 7 |
| LOS PINOS PK | 33 44 | 116 45 | 1491 | | | 08 41 | 11 44 9 7 |
| LOST HILLS | 35 40 | 119 51 | 216 | | | 09 28 | 05 37 9 7 |
| LYONS PEAK | 32 45 | 116 44 | 1140 | | | 12 44 | 03 0. |
| LYNWOOD CT | 33 55 | | 27 | | | 08 72 | • • |
| MAINTENANCE ST CT | | 118 08 | 21 | 10 | | | |
| MALIBU SHERIFF 18 | | 118 42 | 4 | 9 | 21227 | | |
| MAMOTH LAKES | 34 02 37 38 | 118 42 | | | 21237 | 03 53 | |
| MARTINEZ PP | 37 24 | 118 51 121 56 | 2174 | 10 | | 11 /4 | |
| | | | | | | | 13 |
| MARTINEZ TIDEWATE | | 122 08 | 9 | | | | 76 9 7 |
| MARYSVILLE | 39 06 | 121 34 | 22 | | | 03 47 | |
| MEDIAN | 33 01 | 117 04 | E 2 | 10 | | 09 74 | 04 75 26 08 |
| MENDOTA | 36 40 | 120 17 | 53 | _ | | 05 28 | 08 36 9 7 |
| MENLO PARK CT | 37 30 | 122 08 | 2 | 9 | | 11 75 | 07 76 11 8 |
| MERCED | 37 17 | 120 31 | 46 | | | 05 28 | 76 9 7 |
| MINTER FIELD | 35 31 | 119 11 | | 10 | | 08 75 | 08 77 22 08 |
| MIRAMAMAR NAS | 32 52 | 117 08 | 200 | 10 | | 01 55 | 12 64 26 08 |
| MISSION HILLS CT | 34 16 | 118 28 | 290 | 10 | | 09 72 | 02 74 32 8 |
| MONTEREY | 36 35 | 121 51 | 67 | | | | 76 9 7 |
| MONTGOMERY FIELD | 32 49 | 117 08 | 107 | | | 05 72 | 05 73 26 08 |
| MOORPARK DONLON | 34 16 | 119 00 | 134 | 10 | | 02 72 | 03 73 32 8 |
| | | | | | | | |

^{1/} See explanation at end of table.

TABLE 2. NONSUMMARIZED WIND RECORDS FOR 372 CALIFORNIA STATIONS (Continued)

| - | | | | | | | | | | | |
|---|----------------------------------|----|----------|------|----------|------------|-------------|--------------|----------------|--------------|--------------|
| | STATION NAME | LA | т | LONG | 3 | EL M | INST HGT | NO.OF OBS | START MO YR | END MO YR | SU TP 1/ 1/ |
| - | | | | | | | | - | | | |
| | MOORPARK GRIMES | 34 | 16 | 118 | 56 | 131 | 10 | | 02 72 | 03 73 | 32 8 |
| | MOORPARK SPRING | 34 | 18 | 118 | 51 | 262 | 10 | | 11 72 | 12 74 | 32 8 |
| | MOSS LANDING | 36 | 48 | 121 | 48 | 5 | | | | 76 | 9 7 |
| | MORAGA CT | 37 | 51 | 122 | 12 | 290 | 9 | | 05 73 | 03 74 | 11 8 |
| | MORGAN HILL CT | 37 | 08 | 121 | 40 | 107 | 9 | | 03 72 | 07 76 | 11 8 |
| | MT GIVEN | 37 | 17 | 119 | 06 | 2806 | | | | - | |
| | MT HAMILTON | 37 | 20 | 121 | 39 | 1285 | | | 07 29 | 08 65 | 9 7 |
| | MOUNT HOPE | 32 | 43 | 117 | 07 | | 10 | | 11 72 | V | |
| | MTGIVENS | 37 | 13 | 118 | 06 | 2806 | | | 68 | | 31 9 |
| | MT LAGUNA | 32 | 53 | 116 | 25 | 1893 | | | 10 41 | | 9 7 |
| | MT SHASTA | 41 | 19 | 122 | 19 | 1083 | | | 01 32 | | |
| | MT ST HELENA | 38 | 40 | 122 | 38 | 1322 | | | 01 32 | 07 76 | 13 |
| | MT TAMALPIAS | 37 | 56 | 122 | 35 | 789 | | | | | 13 |
| | MT TAMALPIAS | 37 | 54 | 122 | 35 | 290 | | | 06 40 | | 9 7 |
| | MT WILSON | 34 | 14 | 118 | 04 | 1741 | | | 06 40 | | |
| | MOUNTIAN PASS | 35 | 28 | 115 | 34 | - | | | | | 9 7 |
| | NAVAJO | 32 | 48 | 117 | 00 | 1464 | 1.0 | | | | |
| | NAPA ACPD | 38 | 19 | 122 | 18 | | 10 | | | | |
| | NEEDLES | 34 | 46 | | | 12 | | | | | 10 7 |
| | | - | - | 114 | 37 | 280 | | | 01 17 | | 9 7 |
| | | 34 | 11 | | 53 56 | 189 | | | 05 74 | | |
| | NEWBURY PARK 35 NEWHALL | 34 | 11 | 118 | 33 | 198 370 | | | - , | | |
| | NEWHALL SIERRA HW | - | 25 | 118 | 28 | 439 | | | 01 39 | 0.0 | |
| | NEWPORT BEACH CT | 33 | 38 | 117 | | | | | | | 32 8 |
| | NORCO | | 54 | | 46 | 61 | 10 | | 12 72 | | 32 8 |
| | NOVATO CT | 33 | | 117 | 34 | 195 | | | 12 72 | | 23 8 |
| | OCEAN | 33 | 09 13 | 121 | 34 | 12 | | | 11 75 | | 11 8 |
| | OCEANSIDE | 33 | 14 | 117 | 21 | 3 | | | 11 73 | | 26 08 9 7 |
| | OCEANSIDE HARBOR | 33 | 13 | 117 | 24 | 9 | | | 08 28 | 01 52 | 9 7 |
| | OILDALE HMS | 35 | 25 | 117 | 03 | 7 | | | A 9 30 | | |
| | OLEUM POWER PLANT | | 02 | 122 | 13 | 3.0 | 10 | | 08 75 | 08 77 | 22 08 13 |
| | ORANGE | 32 | 45 | 117 | 06 | 10 | 1.0 | | 06 72 | 05 73 | 26 08 |
| | ORINDA CT | 37 | 51 | 122 | 08 | 305 | 10 | | 01 72 | | 11 8 |
| | OWENS LAKE | 37 | 98 | 118 | 17 | 1215 | | | 06 73 | | 24 8 |
| | PACIFICA CT | 37 | 36 | 122 | 30 | 15 | | | | | |
| | PACOIMA CT | 34 | 17 | 118 | 24 | 354 | | | 03 73 10 72 | | 11 8 |
| | PALMDALE AP 89 | _ | 37 | 118 | 05 | 768 | | 141738 | 08 52 | | 14 9 |
| | PALO ALTO | 37 | 27 | 122 | 09 | 17 | | 141130 | _ | | 9 7 |
| | PALO ALTO METRONI | | 27 | 122 | 08 | 28 | | | 05 28 | 03 32 | 13 |
| | PALOMAR AIRPORT | 33 | 07 | 117 | 16 | 20 | | | 11 72 | 10 72 | |
| | PASADENA 122 | | 09 | 118 | 08 | 26 | 10 | 21912 | | | 26 08 |
| | | - | | - | | _ | | | | | 14 9 |
| | 4 4 4 | | 08 | 118 | 07 | 29 | | 16097 | 06 70 | | 14 9 |
| | PASADENA CC 55 PASADENA PALMETTO | | 09 | 118 | 08 | 26 | | 29624 | | | 14 9 |
| | PATROL | 34 | 09 | 118 | 09 | 250 | | | 07 72 | | 32 8 |
| | PEBBLY BEACH | 33 | 20 | | - | 6 | 10 | | 06 73 | | 26 08 |
| | LEGGLI BEACH | 33 | 20 | 118 | 19 | 0 | | | | 76 | 9 7 |
| | | | | | | | | | | | |

^{1/} See explanation at end of table.

TABLE 2. NONSUMMARIZED WIND RECORDS FOR 372 CALIFORNIA STATIONS (Continued)

| | | | 1 | | | | | _ | |
|--------------------|-------|--------|-----|------|--------|-------|-------|------|-----|
| STATION | LAT | LONG | EL | INST | NO.OF | START | END | SU | TP |
| NAME | LAT | LONG | M | HGT | OBS | MO YR | MO YR | 1/ | 1/ |
| | | | | | | | | | |
| PETALUMA CT | 38 14 | 122 37 | ' 3 | 3 9 | | 03 73 | 07 7 | 6 11 | 8 |
| PIGEON POINT LS | 37 11 | 122 24 | . 7 | 7 | | | 7 | 6 9 | 7 |
| PILLAR POINT | 37 30 | 122 30 | 4 (|) | | | 7 | 6 9 | 7 |
| PIRU TELEGRAPH CT | 34 24 | 118 48 | 198 | 3 10 | | 03 73 | 05 7 | 5 32 | 8 |
| PITTSBURG ACPD | 38 02 | 121 54 | . 2 | 2 8 | | 07 70 | 07 7 | 6 10 | 7 |
| PITTSBURG | 38 01 | 121 51 | | 8 8 | | 56 | 6 | 5 8 | 6 |
| PITTSBURG CT | 38 01 | 121 52 | 15 | 9 | | 05 73 | 06 7 | 6 11 | 8 |
| PITTSBURG CT | 38 01 | 121 56 | 9 | 9 | | 01 73 | 10 7 | 5 11 | 8 |
| PLEASANTON CT | 37 42 | 121 54 | 99 | 9 | | 04 74 | 07 7 | 6 11 | 8 |
| POINT BLUNT LS | 37 51 | 122 25 | 73 | 3 | | | 7 | 6 9 | 7 |
| POINT BONITA LS | 37 49 | 122 32 | . 1 | | | | 7 | 6 9 | 7 |
| POINT LOMA | 32 40 | 117 27 | 111 | į. | | | 7 | 6 9 | 7 |
| POINT PINOS | 36 38 | 121 36 | | } | | | 7 | 6 9 | 7 |
| POINT SAN LUIS | 35 10 | 120 46 | 27 | 7 | | 03 43 | 10 5 | 1 9 | |
| POINT SUR LS | 36 18 | 121 54 | 111 | | | 03 43 | 01 4 | - | |
| POINT VINCENT | 33 44 | 118 25 | 38 | 3 | | | | 2 | 7 |
| POTRERO PP | 37 44 | 122 22 | | | | | | 13 | |
| RAINBOW | 33 26 | 117 09 | 339 | 10 | | 05 73 | 11.7 | | 0.8 |
| RAINER MESA | 37 11 | 116 13 | _ | | | , , | • • • | 7 | 1 |
| REAM FIELD NAS | 32 34 | 117 07 | | 10 | | 01 62 | 12 7 | 0 26 | 0.8 |
| RED BLUFF | 40 09 | 122 15 | | | 131496 | | 07 7 | | 7 |
| RED BLUFF | 40 09 | 122 15 | | | 131496 | | 4 | | 6 |
| REDDING | 40 30 | 122 18 | | | | 4. | 7 | _ | |
| REDONDO BEACH 79 | | 118 23 | - | | 33121 | 07 56 | 06 6 | _ | 9 |
| REDWOOD CITY ACPD | | 122 12 | _ | _ | | 02 70 | 07 7 | | 7 |
| REFUGIO | 34 28 | 120 05 | - | 10 | | 09 72 | 11 7 | | 08 |
| RICHMOND ACPD | 37 57 | 122 21 | 16 | | | 03 72 | 07 7 | | 7 |
| RICHMOND CT | 37 58 | 122 25 | | | | 04 74 | 07 7 | | á |
| RICHMOND STD OIL | 37 57 | 122 25 | | | | 4. 74 | 0, , | 13 | 0 |
| RIO LINDA | 38 41 | 121 31 | 15 | | | 01 76 | 01 7 | | 08 |
| RIO VISTA CG | 38 09 | 121 42 | _ | | | | 01. | | 7 |
| RIVERSIDE | 33 57 | 117 27 | - | | | 10 56 | 7 | - | 7 |
| RIVERSIDE AP | 33 57 | 117 26 | | | | 06 75 | 08 7 | - | 8 |
| ROMERO OVER LOOK | 37 05 | 121 06 | _ | | | 01 73 | | 12 | 4 |
| ROSEVILLE | 38 46 | 121 17 | _ | | | 01 76 | 01 7 | _ | 08 |
| SACRAMENTO | 38 35 | 121 30 | 8 | | | 893 | 06 6 | | 7 |
| SAC JEFERSON BLVD | | 121 35 | | | | 02 76 | 01 7 | | 08 |
| SAC MEADOWVIEU | 38 30 | 121 27 | _ | | | 01 76 | 01 7 | | 08 |
| SACRAMENTO CT | 3A 34 | 121 39 | | | | 01 76 | 01 7 | | 08 |
| SACRAMENTO EX AP | 38 31 | 121 30 | 7 | | | 07 28 | 07 7 | | 7 |
| SAC METRO AIRPORT | | 121 36 | | | | 01 76 | 01 7 | _ | 08 |
| SACRAMENTO MET AP | | 121 36 | | | | 09 67 | 07 7 | | 7 |
| SALTON | 33 18 | 115 59 | | 10 | | 11 74 | 05 7 | _ | 08 |
| SALTON SEA | 33 12 | 115 50 | | | | 01 43 | 09 4 | | 7 |
| SAN BERNARDING | 34 09 | 117 19 | | | | 08 73 | 08 7 | | 8 |
| SAN CARLOS FAA | 37 31 | 122 15 | 1 | | | 3- 13 | 70 | | |
| SAN DIEGO | 32 43 | 117 10 | 18 | | | 888 | 02 4 | | 7 |
| 1/ See evalenation | | | • | | | | | | |

^{1/} See explanation at end of table.

TABLE 2. NONSUMMARIZED WIND RECORDS FOR 372 CALIFORNIA STATIONS (Continued)

| STATION | | | EL | INST | NO.OF | START | END | SU TP |
|-------------------|--------|--------|------|------|-------|-------|-------|-------|
| NAME | LAT | LONG | М | HGT | OBS | MO YR | MO YR | 1/ 1/ |
| NAME | | 1 | | 1102 | OBO | | | |
| SAN DIEGO BROWN | 32 34 | 116 59 | 160 | | | | 76 | 9 7 |
| SAN DIEGO GILLESP | 132 49 | 116 58 | 117 | | | | 76 | 9 7 |
| SAN DIEGO LINDBER | | 117 10 | 9 | | | 07 29 | 76 | 9 7 |
| | | | | | | 01 29 | 76 | 9 7 |
| SAN DIEGO MONTGOM | | 117 09 | 127 | | | | | |
| SAN FRANCISCO APC | | 122 25 | | 45 | | 02 70 | - | 10 7 |
| SAN FRANCISCO CG | 37 45 | 122 42 | 8 | | | 48 | 12 68 | 9 7 |
| SAN FRANCISCO CT | 37 47 | 122 23 | 3 | 9 | | 12 75 | 07 76 | 11 8 |
| SAN FRANCISCO FOB | 37 47 | 122 25 | 38 | | | 888 | 04 73 | 9 7 |
| SAN FRANCISCO PG+ | | 122 27 | | | | | | 13 |
| SAN JOSE ACPD | 37 20 | 121 53 | 24 | 8 | | 07 72 | | 10 7 |
| | | | 41 | | | 01 12 | 76 | 9 7 |
| | 37 20 | | | | | | | |
| SAN JOSE ST UN | 37 24 | 121 56 | 29 | | | | | 13 |
| S J CAPISTRANO CT | 33 30 | 117 38 | 30 | | | 04 74 | | 32 8 |
| SAN LEANDRO CT | 37 41 | 122 08 | 9 | 9 | | 04 74 | 07 76 | 11 8 |
| SAN MATEO | 33 23 | 117 35 | 23 | | | | 76 | 9 7 |
| SAN ONOFRE N G S | 33 24 | 117 36 | 27 | | | 12 64 | | 9 |
| SAN PEDRO 8 | | 118 16 | 1 | - 0 | | 04 55 | 03 73 | 14 9 |
| | | | | | 14600 | | | 8 6 |
| SAN PEDRO | 33 45 | | 13 | | 14692 | | | |
| SAN RAFAEL ACPD | 37 58 | 122 31 | 3 | | | 02 70 | | 10 7 |
| SAN YSIDRO REAM | 32 34 | 117 07 | 7 | | 1870 | 43 | 45 | 8 6 |
| SANTA ANA SNA | 33 40 | 117 53 | 16 | | | 06 40 | 76 | 9 7 |
| SANTA BARBARA CT | 34 25 | 119 41 | | 10 | | 12 72 | 11 74 | 21 08 |
| SANTA BARBARA SG | 34 26 | 119 44 | | 10 | | 03 74 | | 21 08 |
| SANTA CRUZ | 36 58 | 122 00 | 1 | • 0 | | - 1 | 76 | 9 7 |
| | | | _ | | | | | 13 |
| SANTA CRUZ MTS LM | | 122 00 | 711 | | | 05 61 | | 9 7 |
| SANTA MONICA | 34 01 | 118 27 | 53 | | | | 76 | |
| SANTA ROSA | 38 31 | 122 49 | 45 | | | 06 48 | 76 | 9 7 |
| SANTA ROSA ACPD | 38 27 | 122 43 | 8 | | | 07 72 | 07 76 | 10 7 |
| SANTA ROSA CT | 38 27 | 122 41 | 61 | 9 | | 12 72 | 07 76 | 11 8 |
| SANTEE | 32 51 | 116 58 | | 10 | | 11 72 | 12 73 | 26 08 |
| SCOTT ROAD | 33 39 | 117 10 | 460 | | | 08 73 | | 23 8 |
| SEAL BEACH CT | 33 46 | 118 02 | 9 | | | 06 75 | | 32 8 |
| | | 122 28 | ź | | | 02 73 | | 11 8 |
| SEARS POINT CT | | | | | | | | |
| SEBASTOPOL CT | 38 24 | 122 40 | 21 | | | 11 74 | | |
| SEXTON SUMMIT ORE | | 153 55 | 1172 | | 43394 | 34 | 38 | 8 6 |
| SHANDON | 35 39 | 120 22 | | 10 | | 01 74 | | 21 08 |
| SHAVER LAKE DAM | 37 09 | 119 19 | | 10 | | 08 74 | 06 75 | 22 08 |
| SHELLVILLE CT | 38 15 | 122 29 | 18 | | | 11 72 | 06 76 | 11 8 |
| SHELTER COVE | 40 02 | 124 04 | 123 | - | | | 76 | 9 7 |
| | | | - | | | 04 7 | | |
| SKYLINE CT | 37 30 | 122 22 | 265 | | | 04 74 | | 11 8 |
| SLOUGHHOUSE | 38 31 | 121 08 | 98 | | | 01 76 | | 20 08 |
| SOUTH PASADINA CT | 34 06 | 118 08 | 189 | 10 | | 09 72 | | 32 8 |
| SPRING VALLEY | 32 45 | 117 00 | | 10 | | 03 73 | 02 75 | 26 08 |
| STADIUM | 32 46 | 117 07 | | 10 | | 07 74 | 05 75 | 26 08 |
| STOCKTON CT | 37 58 | 121 15 | 8 | | | 04 75 | | 25 8 |
| STUDIO CITY CT | 34 08 | 118 14 | 180 | | | 12 73 | | 32 8 |
| | | | | | | | | |
| SUMMIT VALLEY | 34 19 | 117 23 | 1050 | 11 | | 08 73 | 06 75 | 23 8 |
| | | | | | | | | |

^{1/} See explanation at end of table.

TABLE 2. NONSUMMARIZED WIND RECORDS FOR 372 CALIFORNIA STATIONS (Continued)

| STATION | LAT | LONG | EL | INST | NO.OF | START | END | SU TP |
|------------------------------------|----------------|------------------|-----------|------|-------|----------------|----------------|--------------|
| NAME | LAT | LONG | M | HGT | OBS | MO YR | MO YR | 1/ 1/ |
| Stilli Alia STAIL SAI | 22.15 | | | | A | | | |
| SUNLAND FERWICK | 33 15 | 118 18 | 415 | 10 | | 10 72 | | 32 8 |
| SUNLAND TUJUNGA | 34 15 | 118 20 | 354 | 10 | | 04 72 | - | 32 8 |
| SUNNYVALE | 37 21 | 122 03 | 9 | | | 07 32 | 03 42 | 9 7 |
| SUNNYVALE ACPD | 37 22 | 155 05 | 31 | 13 | | 10 73 | 07 76 | 10 7 |
| TAHOE VALLEY | 38 54 | 120 00 | 1930 | | | 02 50 | 76 | 9 7 |
| TAFT | 35 10 | 119 25 | 267 | | | 34 | 06 44 | 9 7 |
| TAHOE CITY CG | 39 11 | 120 07 | 1901 | | | | 76 | 9 7 |
| TEJON APT | 35 02 | 118 45 | 435 | | | 05 28 | 08 34 | 9 7 |
| TEMECULA | 33 29 | 117 08 | 311 | 11 | | 06 76 | | 23 8 |
| TEMECULA | 33 27 | 117 08 | | 10 | | 09 74 | | 26 08 |
| TEMESCAL VALLEY | 33 46 | 117 29 | 344 | 1.0 | | 06 75 | | 32 8 |
| THERMAL AIRPORT | 33 37 | 116 12 | 311 | 10 | | 05 50 | | 26 08 |
| TIBERON CT | 37 52 | 121 27 | 8 | 9 | | 11 74 | | 11 8 |
| TOLL HOUSE/168 | 37 04 | 119 22 | _ | 1.0 | | 06 74 | | 22 08 |
| TORRANCE REF 10 | 33 53 | 118 18 | 5 | | 36901 | 08 52 | | 14 9 |
| TORRANCE | 33 48 | 118 20 | 29 | | | 03 59 | 76 | 9 7 |
| TOWER 5A | 36 47 | 116 20 | 1111 | 29 | | 58 | 64 | 7 1 |
| TRACY | 37 46 | 121 32 | 20 | | | 05 28 | 03 39 | 9 7 |
| TREASURE ISLAND | 37 49 | 155 55 | 3 | | | | | 13 |
| TRINIDAD HEAD | 41 03 | 124 09 | 109 | | | | 76 | 9 7 |
| TRUCKEE | 39 19 | 120 08 | 1800 | | | 10 | 76 | 9 7 |
| TRUCKEE APT | 39 22 | 120 09 | 1777 | | | 10 29 | 03 36 | 9 7 |
| UKIAH PAA | 39 08 | 123 12 | 192 | | | 03 47 | 12 68 | 9 7 |
| VALLEJO 37 CT | 38 08 | 122 15 | 2 | 10 | | 06 73 | | 25 8 |
| VALLEJO 141 CT | 38 06 | 122 16 | 2 | 10 | | 04 75 | | 25 8 |
| VALLEJO ACPO | 38 06 | 122 14 | 23 | 8 | | 07 72 | | 10 7 |
| VALLEJO-NAPA VERNALIS | 38 13 | 122 17 | 10 59 | | | 03 47 | 06 53 | 9 7 |
| VISALIA | 37 36 36 20 | 121 18 | 88 | | | | 01 46 | 9 7 |
| WABASH | 36 20 32 41 | 119 24 | 00 | | | 12 46 | 12 68 | 9 7 |
| WALNUT CIT ASO 46 | | 117 07 117 52 | 16 | 10 | 61206 | 11 72 01 57 | | 26 08 |
| | 34 01 37 52 | | 92 | 9 | 64286 | | | 149 |
| WALNUT CREEK CT WALNUT GROVE TV | 38 14 | 120 03 121 13 | 18 | 9 | | 04 74 | | 11 8 13 |
| WATSONVILLE | | 121 47 | 46 | | | 03 47 | | |
| WEED CT | 36 56 41 26 | 122 21 | | 1.0 | | 03 47 | 08 56 | 9 7 |
| WEST CASITAS | 34 23 | 119 25 | 1066 | 10 | | 06 76 | - 0 | |
| WEST WOOD | 40 18 | 121 00 | 1549 | 10 | | 01 29 | 08 77 04 33 | 21 08 9 7 |
| WESTMINSTER CT | 33 44 | 117 59 | 1242 | | | | | |
| WHEELER RIDGE | | 118 59 | | 10 | | | | 32 8 12 7 |
| WILLIAMS | 35 01 39 06 | 122 09 | 366 39 | | | 05 76 06 31 | 12 52 | 9 7 |
| WILTON | 38 24 | 121 17 | 30 | 10 | | 04 76 | | 20 08 |
| WINTERS | 38 31 | 121 17 | 40 | 10 | | | | |
| WOOD ROAD | 33 51 | 117 19 | 532 | 1. | | | 07 31 | |
| WOODEN VALLEY CT | 38 27 | 122 13 | - | 11 | | | | 23 8 |
| | | | 229 | 9 | | 06 73 | | 11 8 |
| WOODLAND HILLS CT | 34 09 | 118 38 | 290 | 10 | | 08 73 | | 32 8 |
| YORBA LINDA CT | 33 45 | 117 45 | 104 | 10 | | 03 75 | 09 77 | 32 8 |
| YUCA FLAT | 37 04 | 116 03 | 1242 | 29 | | | | 7 1 |

^{1/} See explanation at end of table.

TABLE 2. NONSUMMARIZED WIND RECORDS FOR 372 CALIFORNIA STATIONS (Continued)

| STATION NAME | LAT | LONG | EL M | INST HGT | NO.OF OBS | START MO YR | END MO YR | SU 1/ | TP 1/ |
|---------------------------|----------------|------------------|---------|-------------|--------------|----------------|--------------|----------|-------|
| YUCA NEV YUMA TEST STA | 36 57 32 50 | 116 03 114 21 | 1196 | | 69978 | 01 55 | 12 62 | 2 | 1 |

FOOTNOTES FOR TABLES 1 AND 2

SU=RECORD SOURCE

- 1 PACIFIC GAS + ELECTRIC CO.
- 2 NATIONAL CLIMATIC CENTER, ASHVILLE NO
- 3 LAWRENCE LIVERMORE LAB
- 4 LAWRENCE RADIATION LAB
- 5 HUNTER LIGGETT MILITARY R
- 6 BAY AREA AIR POLLUTION DST
- 8 WIND IN CALIFORNIA (1961)
- 9 ORIGINAL WEATHER RECORDS NCC ASHVILLE NC 10 BAY AREA AIR POLLUTION CONTROL DISTRICT
- 11 CALTRANS DIST 4 SAN FRANCISCO
- 12 DWR ENERGY DIVISION
- 13 CAL ST UN SAN JOSE, MET DEPT
- 14 SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT
- 15 SACRAMENTO MUNICIPAL UTILITY DISTRICT
- 16 DESERT RESEARCH INSTITUTE UN
- 17 OREGON ST UN CORVALLISTATMO SCI
- 7 ESSA AIR RESOURCES LAB
- 18 CALTRANS DIST 2 REDDING
- 19 CALTRANS DIST 1 EUREKA
- 20 CALTRANS DIST 3 MARYSVILLE
- 21 CALTRANS DIST 5 SAN LUIS OBISPO
- 22 CALTRANS DIST 6 FRESNO
- 23 CALTRANS DIST 8 SAN BERNARDING
- 24 CALTRANS DIST 9 BISHOP
- 25 CALTRANS DIST 10 STOCKTON
- 26 CALTRANS DIST 11 SAN DIEGO
- 27 UNIVERSITY OF CALIF
- 28 LOS ANGELES DEPT OF WATER AND POWER
- 1 VELOCITY-DIRECTION TABLES AVAILABLE
- 29 U S FOREST SERVICE
- 30 SOUTHERN CALIE FDISON CO
- 31 CAL ST UN NORTHRIDGE GEOGRAPHY DEPT
- 32 CALTRANS DIST 7 LOS ANGELES
- TP=RECORD TYPE
- 2 OBSERVATIONS ON MAGNETIC TAPE
- 3 ENERGY SPECTRA
- 4 AVERAGE DAILY WIND SPEED
- 5 WIND ROSE
- 6 WIND ROSE AND VELOCITY-DURATION DIAGRAM
- 7 UNPROCESSED HOURLY OR 3 HOURLY RECORDS
- 8 STRIP CHARTS MRI MODEL 1071
- 9 ANNUAL SUMMARY UNAVAILABLE

Table 3. WIND EQUIVALENT-BEAUFORT SCALE

| Beaufort Number | Metres per Second | Miles per Hour | Knots | International Description | Specifications |
|--------------------|-------------------------|-------------------|-------------|------------------------------|--|
| 0 | 02 | Less than 1 | Less than 1 | Calm | Calm; smoke rises vertically |
| 1 | .3-1.5 | 1-3 | 1-3 | Light air | Direction of wind shown by smoke drift but not by wind vanes |
| 2 | 1.6-3.3 | 4-7 | 4-6 | Light breeze | Wind felt on face; leaves rustle; vanes moved by wind |
| 3 | 3.4-5.4 | 8-12 | 7-10 | Gentle breeze | Leaves and small twigs in constant motion; wind extends light flag |
| 4 | 5.5 -7.9 | 13-18 | 11-16 | Moderate | Raises dust, loose paper; small branches moved |
| 5 | 8.0-10.7 | 19-24 | 17-21 | Fresh | Small trees in leaf begin to sway; crested wavelets form on in- land waters |
| 6 | 10.8-13.8 | 25-31 | 22-27 | Strong | Large branches in motion; whistling heard in telegraph wires; umbrellas used with difficulty |
| 7 | 13.9-17.1 | 32-38 | 28-33 | Near gale | Whole trees in motion; inconvenience felt walking against wind |
| 8 | 17.2-20.7 | 39-46 | 34-40 | Gale | Breaks twigs off trees; impedes progress |
| 9 | 20.8-24.4 | 47-54 | 41-47 | Strong gale | Slight structural damage occurs |
| 10 | 24.5-28.4 | 55-63 | 48-55 | Storm | Trees uprooted; considerable damage occurs |
| 11 | 28.5-32.6 | 64-72 | 56-63 | Violent storm | Widespread damage |
| 12 | 32.7-36.9 | 73-82 | 64-71 | Hurricane | Widespread damage |
| | | | | | |

Source: Federal Meteorological Handbook #1

TABLE 4. MEAN MONTHLY WIND VELOCITIES FOR SELECTED CALIFORNIA STATIONS

| | | | (| in kr | ots) | | | | | | | | |
|----------------------------|--------|--------|--------|---------|--------|--------|--------|---------|-----|--------|---------|---------|--------|
| STATION NAME | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | YEAR |
| BAKERSFIELD AP | 5 | 5 | 6 | 6 | 7 | 7 | 6 | 6 | 5 | 5 | 4 | 4 | 6 |
| BEALE AFB | 5 | 6 | 6 | 6 | 6 | 6 | 5 | 5 | 5 | 5 | 5 | 4 | 5 |
| BLUE CANYON AP | 9 | 9 | 8 | 7 5 | 7 5 | 7 | 6 5 | 6 5 | 7 | 7 | 7 | 7 | 7 |
| BURBANK AP CASTLE AFR | 5 | 5 | 5 | 7 | 7 | S A | 8 | 7 | 6 | 5 | 4 | 4 | 6 |
| CHINA LAKE | 6 | 7 | 9 | ģ | 9 | 9 | 8 | 8 | 7 | 6 | 5 | 5 | 7 |
| EDWARDS AFB | 6 | 7 | ģ | 10 | 11 | 11 | 10 | 9 | 7 | 6 | 6 | 5 | 8 |
| EL TORO | 5 | 5 | ś | 5 | • 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| EUREKA NWS | 6 | 6 | 7 | 7 | 7 | 6 | 6 | 5 | 5 | 5 | 5 | 6 | 6 |
| FARALON ISLAND | 14 | 13 | 15 | 16 | 17 | 16 | 14 | 13 | 12 | 12 | 13 | 12 | 14 |
| FORT ORD | 5 | 5 | 5 | 6 | 7 | 7 | 7 | 7 | 5 | 5 | 4 | 4 | 6 |
| FRESNO AP | 5 | 5 | 6 | 6 | 7 | 7 | 6 | 6 | 5 | 5 | 4 | 4 | 6 |
| GEORGE AFB | 7 | 8 | 9 | 9 | 9 | 9 | 7 | 7 | 7 | 7 | 7 | 6 | 8 |
| HAMILTON AFB | 5 | 5 | 5 | 5 | 6 | 6 | 5 | 5 | 4 | 4 | 4 | 5 | 5 |
| IMPERIAL BEACH | 6 | 6 | 6 | 7 | 6 | 6 | 5 | 5 | - 5 | 5 | 6 | 6 | 6 |
| LAS VEGAS NEV AP | 6 | 7 | 9 | 9 | 9 | 9 | 9 | 8 5 | 8 | 7 | 6 | 6 | 8 5 |
| LEMOORE NAS | 3 5 | 4 | 5 | 5 7 | 6 | 6 | 6 | 6 | 5 | 5 | 3 5 | 3 5 | 6 |
| LONG BEACH AP | 6 | 5 | 6 7 | 7 | 7 | 7 | 7 | 7 | 5 | 6 | 6 | 6 | 6 |
| LOS ANGELES CIV CEN | 6 | 6 | 6 | 6 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 5 |
| MARCH AFR | 4 | 4 | 5 | 5 | 5 | 5 | 5 | 5 | 4 | 4 | 4 | 4 | 5 |
| MATHER AFB | 6 | 6 | 7 | 6 | 7 | 7 | 7 | 7 | 6 | 5 | 5 | 5 | 6 |
| MC CLELLEN AFB | 6 | 6 | 7 | 7 | 7 | Я | 7 | 7 | - 6 | 6 | 5 | 5 | 7 |
| MEDFORD ORE AP | 4 | 4 | 5 | 5 | 5 | 5 | 5 | 5 | 4 | 3 | 3 | 3 | 4 |
| MOFFETT FIELD NAS | 5 | 5 | 6 | 6 | 6 | . 7 | 6 | 6 12 | 3 | 5 | 4 | 5 18 | . 5 |
| MT TAMALPAIS | 17 | 16 | 16 | 16 | 17 | 16 | 13 | 4 | 13 | 14 | 16 3 | 10 | 16 |
| NORTON AFB OAKLAND AP | 6 | 6 | 8 | 8 | 9 | 9 | 8 | 8 | 7 | 6 | 5 | 6 | 7 |
| OXNARD AFH | 5 | 5 | 5 | 5 | 5 | 4 | 4 | 4 | 4 | 4 | 5 | 6 | 5 |
| POINT MUGU | 10 | 9 | 10 | 10 | 9 | 8 | 7 | 8 | 7 | 7 | 7 | 5 | 8 |
| POINT REYES | 16 | 18 | 18 | 21 | 23 | 23 | 20 | 19 | 16 | 16 | 16 | 16 | 18 |
| RED BLUFF AP | 8 | 8 | 9 | 8 | 8 | 8 | 7 | 7 | 7 | 7 | 7 | 7 | 8 |
| RENO NEVADA AP | 5 | 5 | 7 | 7 | 7 | 6 | 6 | 5 | 5 | 5 | 5 8 | 4 | 6 |
| ROMERO OVERLOOK | 7 | 7 | 11 | 13 | 16 | 17 | 16 | 16 8 | 13 | 8 | 6 | 6 | 11 |
| SACRAMENTO EAP | 15 | 7 | 8 | 8 14 | 14 | 13 | 11 | 11 | 11 | 13 | 14 | 14 | 13 |
| SAN CLEMENTE IS | 6 | 6 | 8 | 8 | 8 | 7 | 7 | 6 | 6 | 5 | 6 | 6 | 7 |
| SAN DIEGO AP | 5 | 5 | 6 | 7 | 7 | 7 | 6 | 6 | 6 | 5 | 5 | 5 | 6 |
| SAN FRANCISCO AP | 6 | 7 | 9 | 11 | 11 | 12 | 12 | 11 | 10 | 8 | 6 | 6 | 9 |
| SAN FRANCISCO FOR | 6 | 7 | 7 | 8 | 9 | 9 | 10 | 9 | 8 | 7 | 5 | 6 | 8 |
| SAN NICOLAUS ISLAND | | 14 | 15 | 15 | 16 | 14 | 13 | 13 | 13 | 12 | 12 | 12 | 14 |
| SANTA MARIA AP | 6 | 6 | 7 | 7 | 7 8 | 7 | 6 | 5 7 | 5 | 5 5 | 6 5 | 6 5 | 6 |
| STOCKTON AP | 6 | 6 | 9 | 11 | 13 | 15 | 17 | 15 | 13 | 9 | 6 | 6 | 9 |
| TRAVIS AFB YUCCA NEV TS | 9 | 8 9 | 10 | 11 | 13 | 10 | 10 | 9 | 13 | 9 | 7 | 8 | 9 |
| YUMA ARIZONA AP | 6 | 6 | 7 | 7 | 7 | 7 | 8 | á | 6 | 6 | 6 | 6 | 7 |
| OUT WEITOUN NE | J | U | , | | | , | - | | , | - | | | |

TABLE 5. EXTREME ANNUAL WIND SPEED FASTEST MILE (units in miles per hour)

| Year | Bakersfield | Blue Canyon | Eureka | Fresno | Long Beach | Los Angeles AP | Oakland | Red Bluff | Sacramento | Sandberg | San Diego | San Francisco AP | San Francisco FOB | Santa Maria | Stockton | Reno | Yuma |
|--------------------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|-----------------------------|----------------------------|----------------------------|
| 1948 1949 1950 1951 1952 | 35 35 38 30 | 69 | 35 35 36 45 51 | 34 40 34 38 38 | | 54 62 | 50 45 48 46 | 56 47 59 59 | 62 70 | 97 86 | 31 34 28 35 45 | 48 50 | 37 33 43 42 46 | 45 36 35 31 42 | 24 34 | 68 61 | 50 51 |
| 1953 1954 1955 1956 1957 | 35 30 32 27 32 | | 48 39 54 44 35 | 31 35 36 29 30 | | 57 45 48 51 37 | 49 38 46 346 | 63 50 51 61 43 | 70 60 59 52 42 | 91 76 69 64 | 30 36 39 32 34 | 55 48 33 40 47 | 41 35 42 34 34 | 44 32 28 28 31 | 35 32 35 29 28 | 49 66 59 56 | 43 54 38 43 47 |
| 1958 1959 1960 1961 1962 | 40 35 44 35 37 | 64 70 61 67 53 | 49 42 48 40 56 | 29 40 28 31 33 | 40 33 39 32 | 35 45 36 49 | 43 40 41 40 35 | 60 41 47 50 68 | 42 56 40 40 42 | 55 64 77 54 62 | 37 30 33 31 31 | 48 48 52 39 30 | 40 40 36 30 38 | 33 46 37 36 40 | 25 40 32 38 38 | 72 46 54 59 50 | 38 47 34 52 36 |
| 1963 1964 1965 1966 1967 | 32 31 32 29 25 | 67 38 54 40 46 | 45 42 42 45 | 34 41 30 30 29 | 44 37 32 28 28 | 43 55 43 43 38 | 40 46 38 35 35 | 56 56 50 456 | 38 37 42 36 58 | 62 54 52 58 55 | 32 34 33 33 32 | 60 59 51 48 49 | 38 36 47 36 40 | 32 37 | 29 40 44 39 | 49 51 56 48 70 | 35 50 45 42 49 |
| 1968 1969 1970 1971 1972 | 25 30 32 35 41 | 37 54 55 39 33 | 42 48 42 40 | 29 30 29 35 32 | 35 32 35 30 31 | 38 41 45 43 | 35 32 35 31 30 | 45 57 56 47 42 | 38 35 35 38 37 | 71 64 46 60 54 | 32 35 34 30 29 | 45 47 41 40 32 | 35 34 34 33 34 | | 33 32 39 36 31 | 80 59 42 49 | 39 42 41 42 40 |
| 1973 1974 1975 1976 | 38 35 32 35 | 43 76 35 30 | 43 47 46 36 | 36 31 31 35 | 36 30 33 30 | 46 46 46 53 | 31 33 32 40 | 46 50 42 37 | 31 44 43 34 | 54 55 74 60 | 33 33 30 32 | 39 41 41 | | | 35 32 35 46 | 48 60 66 66 | 60 36 47 57 |

TABLE 6. EXTREME ANNUAL WIND SUMMARY (a)
FASTEST MILE (units in miles per hour)

| Station | Mean | Std. Dev. | CV | Yrs. Rec. | Avg. Annual Wind | Ratio* |
|---|--------------------------------------|-----------------------------------|--------------------------------------|----------------------------|----------------------------------|--------------------------|
| Bakersfield AP Blue Canyon AP Eureka Fresno AT Long Beach | 33.5 51.6 43.4 33.0 33.6 | 4.5 14.3 5.4 3.8 4.3 | .134 .277 .124 .115 | 28 20 29 29 18 | 6.4 8.8 6.3 6.4 | 5.2 6.4 5.3 |
| Los Angeles AP Oakland AP Red Bluff AP Sacramento AP Sandberg | 45.9 39.1 51.7 45.4 64.6 | 6.8 6.1 7.6 11.4 12.9 | .148 .156 .147 .251 | 25 29 29 26 25 | 7.4 8.2 8.8 8.3 15.3 | 6.2 4.8 5.5 4.2 |
| San Diego San Francisco AP San Francisco FOB Santa Maria AP Stockton AP | 33.0 45.2 37.6 36.1 34.9 | 3.3 7.7 4.2 5.7 5.7 | .100 .170 .112 .158 .163 | 29 25 25 17 26 | 6.7 10.5 8.7 7.0 7.4 | 4.9 4.3 4.3 5.2 |
| Reno Yuma | 57.6 44.5 | 9.5 | .165 | 26 26 | 6.4 7.8 | ø 5.7 |
| Average Standard Deviation | | | .159 | | | 5.3 |

^{*} Ratio Mean Fastest Mile over Average Annual Wind \emptyset Reno's Ratio Thought to be Unrepresentative of California (a) Table 4 Summarizes Table 5

TABLE 7a. EXTREME ANNUAL WIND SPEED PEAK GUST (in knots)

| Year | Alameda | Barcroft | Beale | Castle | China Lake | Crooked Creek | El Centro | El Toro | Ft. Ord | George AFB | Hamilton AFB | Imperial Beach | Lemoore | Los Alamitos | Los Angeles AP |
|--------------------------------------|----------------------------|----------------------------|----------------------------------|----------------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|
| 1946 1947 1948 1949 1950 | 44 | | | | 67 67 69 62 67 | 42 | 52 52 53 51 | 55 59 59 50 | | | 42 49 47 60 | | | 45 | 40 |
| 1951 1952 1953 1954 1955 | 80 50 90 51 60 | 60 51 57 | | 41 51 43 47 54 | 56 70 58 60 56 | 52 36 50 53 38 | 50 57 58 58 57 | 53 47 60 59 36 | | 51 54 56 62 46 | 36 43 50 56 53 | | | 54 54 54 46 40 | 47 54 50 39 36 |
| 1956 1957 1958 1959 1960 | 51 45 59 49 55 | 60 62 78 82 70 | | 50 36 36 42 36 | 57 55 55 52 | 41 42 36 41 48 | 57 47 48 | 65 48 46 44 50 | 40 | 45 41 41 76 50 | 48 54 75 46 64 | 43 46 51 48 38 | | 53 53 35 37 40 | 44 51 48 40 31 |
| 1961 1962 1963 1964 1965 | 45 46 43 62 48 | 63 70 62 68 68 | 48 45 | 37 43 38 51 35 | 60 49 44 | 42 44 52 72 60 | | 52 45 42 50 36 | 30 44 33 42 42 | 46 46 50 45 49 | 38 44 46 47 54 | 38 42 34 35 32 | 34 36 36 43 | 40 40 38 42 36 | 40 43 37 48 |
| 1966 1967 1968 1969 1970 | 42 52 45 52 43 | 70 74 54 58 30 | 43 45 39 51 58 | 37 47 48 46 46 | | 64 68 50 94 65 | | 70 54 44 37 47 | 42 38 40 50 41 | 41 42 52 52 47 | 42 45 47 51 46 | 33 32 34 33 36 | 32 33 32 33 38 | 39 35 35 | |
| 1971 1972 1973 1974 1975 | 40 36 | | 43 45 40 43 54 38 | 45 40 42 39 40 39 | | | | 46 51 | | 47 43 | | 41 37 | 39 41 | | |

TABLE 7b. EXTREME ANNUAL WIND SPEED PEAK GUST (in knots)

| Year | March AFB | Mather AFB | McClellan AFB | Miramar | Moffett Field | Monterey | Norton AFB | Oxnard | Point Mugu | San Diego | San Francisco | San Nicolos Island | Travis AFB | Vandenberg AFB |
|--|----------------------------|----------------------------------|----------------------------------|----------------------------|----------------------------|-----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------------|----------------------------|----------------------------|----------------------------|
| 1946 1947 1948 1949 1950 | 37 43 46 37 | 45 51 53 63 | 56 55 56 71 | 39 38 41 | 40 39 38 46 48 | 48 43 53 | 49 57 69 55 | | | 34 44 54 34 | 58 58 62 64 | 64 51 | 56 58 49 | |
| 1951 1952 1953 1954 1955 | 36 36 49 39 38 | 56 64 55 61 55 | 55 66 52 56 59 | 39 50 32 33 35 | 51 49 54 42 54 | 100 67 49 40 51 | 56 49 60 51 51 | | | 42 51 47 52 46 | 78 62 67 62 63 | 56 | 49 62 65 49 51 | |
| 1956 1957 1958 1959 1960 | 41 38 40 39 43 | 59 60 55 58 59 | 52 51 50 54 53 | 31 38 41 36 38 | 38 39 46 56 52 | 48 69 42 48 42 | 48 44 36 47 60 | 50 38 47 39 | 5 58 | 35 36 63 52 40 | 48 60 60 57 66 | | 46 42 44 48 47 | |
| 1961 1962 1963 1964 1965 | 39 42 31 39 37 | 45 51 43 48 48 | 37 53 45 50 49 | 33 33 29 35 30 | 46 34 40 38 35 | 35 45 47 52 | 44 42 51 51 47 | 41 44 54 44 35 | 56 61 43 50 39 | 36 41 40 36 39 | 46 62 74 66 59 | 41 | 44 58 41 50 46 | 36 40 |
| 1966 1967 1968 1969 1970 | | 48 52 37 62 50 | 42 66 40 60 53 | 33 33 28 34 41 | 39 37 35 37 38 | | 49 39 36 49 52 | 46 | 47 43 42 41 49 | 38 34 37 28 36 | 61 53 69 60 | 43 42 45 41 39 | 43 59 40 64 57 | 34 33 36 41 38 |
| 1971 1972 1973 1974 1975 1976 | | 48 50 48 45 56 48 | 60 49 65 50 57 45 | 39 33 | 38 32 | | 42 48 | | 41 45 | 40 32 | 55 43 49 54 52 55 | 52 37 | 48 60 | |

TABLE 8. EXTREME ANNUAL WIND SUMMARY PEAK GUST (in knots)

| Station | Mean | Std. Dev. | CV | Yrs. | Avg Ann. Wind | Ratio |
|--|--------------------------------------|----------------------------------|--------------------------------------|----------------------------|---------------------------------|------------------------------------|
| Alameda NAS Barcroft | 52.2 63.2 45.5 | 12.3 11.6 5.9 | .234 | 24 18 13 | 7.5 5.3 | 7.0 |
| Beale AFB Castle AFB China Lake | 42.6 59.1 | 5.4 | .130 .127 .124 | | 6.0 7.1 | 8.6 7.2 8.3 |
| Crooked Creek El Centro El Toro Ft Ord George AFB | 51.4 53.3 50.2 40.2 49.2 | 14.3 4.0 8.5 5.3 8.0 | .278 .074 .169 .132 .162 | 11 | 7.6 4.8 5.6 7.4 | 7.0 10.5 7.2 6.6 |
| Hamilton AFB Imperial Beach Lemoore Los Alamitos Los Angeles AP | 49.2 38.4 36.1 42.9 43.2 | 8.5 5.9 3.8 7.2 6.4 | .172 .152 .104 .168 .148 | | 4.8 5.8 4.7 4.8 5.8 | 10.3 6.6 7.7 8.9 7.4 |
| March AFB Mather AFB McClellan AFB Miramar Moffett Field | 39.5 52.5 53.6 35.7 42.3 | 4.0 6.4 7.7 4.8 6.9 | .101 .122 .144 .135 .162 | | 4.5 6.2 6.5 4.4 5.3 | 8.8 8.5 8.2 8.1 8.0 |
| Monterey Norton AFB Oxnard Point Mugu San Diego NWS | 51.7 49.3 43.8 47.3 41.0 | 15.1 7.5 5.8 7.1 8.1 | .293 .152 .132 .150 | 17 26 10 13 26 | 4.9 3.5 4.4 5.6 5.3 | 10.6 14.1 10.0 8.4 7.7 |
| San Francisco AP San Nicolaus Island Travis AFB | 59.5 46.5 51.0 | 7.7 8.3 7.5 | .130 .178 .147 | 20 11 25 | 6.1 9.9 10.3 | 9.7 4.7 5.0 |
| Average Standard Deviation | 47.5 7.00 | | .157 | | 5.93 1.61 | 8.3 1.90 |

TABLE 9. PEAK MONTHLY WINDS AT SELECTED STATIONS (in knots)

| | | | | | | | | | | | | | | | _ |
|------------------------------|----------|----------|----------|----------|----------|-----------|----------|-----------|------------|----------|----------|----------|------------|----------|-----|
| STATION | YRS | TYPE | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | ANN |
| ALAMEDA NIISF | 28 | ÞG | 60 | 59 | 51 | 46 | 46 | 43 | 35 | 32 | 42 | 55 | 61 | 62 | 62 |
| BAKERSFIELD NAS | 28 | FM | 35 | 44 | 3 = | 4.0 | 3.8 | 41 | 25 | 30 | 35 | 31 | 30 | 35 | 44 |
| BARCPOFT LAB | 18 | PG | 94 | 81 | 75 | 93 | 65 | 51 | 53 | 53 | 51 | 81 | 67 | 78 | 94 |
| BEALE AFP | 16 | PG | 50 | 54 | 44 | 3.8 | 37 | 3 A | 28 | 30 | 42 | 46 | 56 | 58 | 58 |
| BLUE CANYON NIS | 19 | FF | 67 | 76 | 67 | 50 | 37 | 49 | 32 | 30 | 49 | 70 | 54 | 51 | 76 |
| CASTLE AFH | 59 | PG | 51 | 54 | 47 | 49 | 43 | 40 | 30 | 59 | 42 | 4 () | 46 | 47 | 54 |
| CROOKED CREEK LAR | 55 | PG | 108 | 78 | 67 | 60 | 56 | 65 | 44 | 75 | 44 | 67 | 63 | 74 | 108 |
| EL TORO MCAS | 27 | PG | 59 | 65 | 55 | 46 | 36 | 33 | 47 | 36 | 43 | 45 | 63 | 60 | 65 |
| EUREKA NWS | 66 | FM | 54 | 48 | 44 | 49 | 40 | 30 | 35 | 34 | 40 | 56 | 4.3 | 56 | 56 |
| FORT ORD/FRITZSHE | 11 | PG | 44 | 50 | 3 / | 40 | 40 | 3.8 | 26 | 58 | 53 | 40 | 42 | 42 | 50 |
| FRESNO NWS | 26 | FM | 32 | 38 | 4.1 | 36 | 3 A | 34 | 25 | 31 | 29 | 4.0 | 29 | 43 | 43 |
| HAMILTON AFR | 24 | PG PG | 56 | 75 | 49 | 49 | 45 | 41 | 32 | 46 | 44 | 64 | 53 | 53 | 75 |
| IMPERIAL BEACH NWSED | | | 4.8 | 37 | 44 | 48 | 58 | 27 | 28 | 26 | 30 | 41 | 51 | 40 | 51 |
| LEMOOPE NASED | 12 | PG | 38 | 43 | 3 4 | 32 | 37 | 33 | 28 | 27 | 3 > | 39 | 32 | 41 | 43 |
| LONG REACH NAS | 18 | FM | 37 | 40 | 35 | 44 | 30 | 21 | 23 | 23 | 23 | 37 | 35 | 39 | 44 |
| LOS ALAMITOS NESED | 5.0 | PG FM | 54 48 | 42 57 | 54 | 47 59 | 3a 45 | 32 | 25 | 26 | 26 | 39 | 53 | 54 | 54 |
| LOS ANGELES AP NWS | 26 35 | FM | 49 | 40 | 62 47 | - | 39 | 32 | 29 | 33 | 28 | 46 | 55 | 49 | 65 |
| LOS ANGELES CC NWS MARCH AFB | 19 | PG | 45 | 43 | 41 | 4 0 35 | 34 | 32 | 21 36 | 24 35 | 27 39 | 39 | 42 | 44 | 49 |
| MATHER AFB | 31 | PG | 61 | 62 | 62 | 53 | 43 | 45 | 33 | 32 | | | 4 0 5 6 | 64 | 64 |
| MCCLELLEN AFR | | PG | 66 | 60 | - | 55 | 55 | 56 | 39 | | 50 | 63 | | - | 71 |
| MEDFORD NWS | 31 27 | FM | 50 | 46 | 66 55 | 35 | 38 | | 44 | 31 48 | 40 | 71 | 55 38 | 65 44 | 55 |
| | | | | 39 | | | - | 33 | | | 32 | 40 | | | |
| MIRAMAR NWSED | 26 | PG | 39 | | 37 | 41 | 31 | 25 | 32 | 28 | 41 | 33 | 38 | 41 | 41 |
| MOFFETT FIELD NWSED | 27 | PG | 56 | 56 69 | 100 | 43 | 36 39 | 40 | 30 | 31 | 33 | 48 | 43 | 52 | 56 |
| MONTEREY NWSER | 16 | PG | 54 69 | 55 | 100 | 46 | 35 | 40 | 33 39 | 32 | 31 | 56 57 | 49 | 61 | 100 |
| NORTON AFR | 27 | PG FM | 46 | 49 | | 35 | 38 | 48 | 28 | 56 29 | 6 n | 43 | 52 46 | 64 48 | 49 |
| OAKLAND AP NWS OXNARD AFR | 28 | PG | 47 | 44 | 45 | 36 | 36 | 4 ? 23 | 22 | 21 | 32 | 44 | 50 | 45 | 50 |
| POINT MUGU PMP | 13 | PG | 61 | 49 | 47 | 50 | 44 | 29 | 33 | 25 | 40 | 43 | 56 | 58 | 61 |
| RED BLUFF AF AWS | 32 | FM | 59 | 61 | 63 | 50 | 46 | 38 | 38 | 30 | 50 | 68 | 56 | 60 | 68 |
| RENO AP NWS | 16 | FM | 80 | 66 | 80 | 4.8 | 48 | 46 | 44 | 43 | 42 | 50 | 52 | 68 | 80 |
| SACRAMENTO AP NWS | 28 | FM | 60 | 51 | 55 | 45 | 35 | 47 | 36 | 38 | 42 | 68 | 70 | 70 | 70 |
| SANDBERG NWS | 21 | FM | 64 | 77 | 74 | 64 | 59 | 64 | 46 | 40 | 45 | 53 | 62 | 53 | 77 |
| SAN CLEMENTE NWSED | 10 | PG | 39 | 44 | 42 | 39 | 34 | 31 | 24 | 28 | 29 | 33 | 39 | 38 | 44 |
| SAN DIEGO NWSF | 26 | PG | 52 | 46 | 52 | 63 | 30 | 28 | 24 | 26 | 28 | 54 | 46 | 4.0 | 63 |
| SAN DIEGO NAS | 33 | FM | 39 | 35 | 46 | 37 | 27 | 26 | 23 | 23 | 25 | 31 | 51 | 34 | 51 |
| SAN FRANCISCO AP NAS | | FM | 58 | 52 | 40 | 46 | 41 | 44 | 38 | 36 | 38 | 44 | 47 | 47 | 58 |
| SAN FRANCISCO FOR | 36 | FM | 47 | 47 | 44 | 38 | 38 | 40 | 38 | 34 | 32 | 43 | 41 | 45 | 47 |
| SAN NICOLAUS IS PAR | 1.1 | PG | 52 | 64 | 54 | 55 | 56 | 45 | 45 | 41 | 47 | 50 | 52 | 55 | 64 |
| SANTA ANA MCAF | 10 | PG | 57 | 53 | 42 | 39 | 40 | 28 | 26 | 31 | 40 | 37 | 52 | 59 | 59 |
| STOCKTON AP NAS | 13 | FM | 46 | 39 | 39 | 35 | 33 | 31 | 26 | 28 | 33 | 36 | 40 | 44 | 45 |
| TRAVIS AFR | 25 | PG | 60 | 65 | 56 | 53 | 45 | 47 | 46 | 42 | 47 | 51 | 54 | 49 | 65 |
| VANDENBERG AFR | 8 | PG | 41 | 41 | 40 | 36 | 35 | 36 | 28 | 25 | 32 | 35 | 38 | 34 | 41 |
| | | | | DE.SE | RT A | REA | STAT | IONS | | | | | | | |
| BISHOP NWS | 2 | PG | 47 | 52 | 5 A | 58 | 53 | 6.0 | 46 | 75 | 48 | 48 | 56 | 66 | 75 |
| | | PG | 67 | 69 | 70 | - | 71 | 67 | 52 | 50 | | 59 | 58 | 62 | 71 |
| CHINA LAKE NWSED | 50 | PG | | 67 | | 64 | | | _ | | 60 | 75 | | 58 | 75 |
| EDWARDS AFP | 26 | PG | 59 50 | 52 | 74 54 | 58 58 | 62 58 | 59 52 | 5 <u>1</u> | 60 | 75 4A | 48 | 55 53 | 55 | 58 |
| EL CENTRO NAAS GEORGE AFB | 13 | PG | 54 | 52 | 55 62 | | 45 | 76 | 50 | 51 | 39 | 44 | 51 | 56 | 76 |
| LAS VEGAS NAS | 23 | FM. | 52 | 60 | 52 52 | 52 52 | 52 | 46 | 50 64 | 55 | 54 | 52 | 46 | 54 | 64 |
| YUMA AP NWS | 12 | FM | 41 | 50 | 43 | 47 | 38 | 42 | 52 | 60 | 57 | 47 | 47 | 47 | 60 |
| TUMA AP NAS | 20 | b. In. | 41 | 50 | 7 3 | 7/ | 30 | 72 | 26 | 00 | 21 | 7. | 7 / | 7 / | 00 |

TYPE FM=FASTEST MILE, PG=PEAK GUST (KNOTS)



WIND SPEED-DIRECTION SUMMARIES FOR 220 STATIONS (See Table 1 for alphabetical listing; Figure 1 for location)

| ALL | ALL | BOURS (L.S.T.) | | | | |
|--------------------------|-------------|----------------|--|----------|---------|---------------------|
| 45-72 | ALL WEATHER | CLASS | 30' | LOCATION | | HEIGHT ABOVE GROUND |
| ALAMEDA, CALIFORNIA NWSF | | | 37 ⁰ 47', 122 ⁰ 19', 30' | | 22 feet | |
| 39 ALAM | | | | | | |

| MEAN WIND SPEED | 6.5 | 5.7 | 5.2 | 5.0 | 4.8 | 6.7 | 8.8 | 8.7 | 7.5 | 7.6 | 0.8 | 9.1 | 10.1 | 0.6 | 7.0 | 6.9 | | 7.5 |
|-------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--------|-----|-----|-----|-------|----------------|
| N. | 4.7 | 1.1 | 1.1 | 9. | 2.2 | 3.1 | 2.0 | 2.9 | 4.4 | 3.2 | 7.6 | 9.3 | . 22.1 | 6.7 | 7.9 | 2.0 | 10.2 | 100.0 |
| % A1 | | | | | | | | | | | | 0. | | | | | X | 0. |
| 48 - 55 | | | | | | | | | | | 0. | | | | | | X | 0. |
| 41 - 47 | | | | | | | | | | | | | 0. | | | | X | 0. |
| 34 - 40 | | | | | | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | | | X | 0. |
| 28 - 33 | 0. | 0. | | | 0. | 0 | .1 | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | X | .1 |
| 22 - 27 | 0. | 0. | 0. | | 0. | 0. | .2 | .1 | .1 | 0. | 0. | 0. | £. | 7. | 0. | 0. | X | 1.0 |
| 17 - 21 | .1 | 0. | 0. | 0. | 0. | -1 | . 4 | .2 | .2 | .1 | . 2 | е. | 1.7 | 4. | .2 | .1 | X | 4.1 |
| 11 . 16 | 5. | 7. | .1 | 0. | .1 | .3 | 8. | .5 | 9. | 2. | 1.6 | 2.7 | 7.3 | 2.5 | 1.0 | 9. | X | 19.1 |
| 7 - 10 | 1.0 | .2 | .2 | .1 | 4. | ω. | 1.1 | 9. | 6. | 6. | 2.8 | 3.4 | 7.5 | 3.4 | 2.5 | 1.4 | X | 24.8 26.9 19.1 |
| 4 - 6 | 1.8 | 4. | 4. | .2 | 6. | 1.3 | 1.5 | 6. | 1.5 | 1.0 | 2.0 | 2.1 | 3.9 | 2.3 | 2.8 | 1.9 | X | 24.8 |
| 1.3 | 1.3 | 4. | 4 | .2 | 8. | .7 | 6. | 9. | 1.1 | 9. | 1.0 | ω. | 1.5 | 6. | 1.4 | 6. | X | 13.5 |
| SPEED (KNTS) DIR. | z | a Z | | ENE | . 3 | ESE | SE | SSE | s | SSW | SW | WSW | * | WNW | ×× | WNW | CALIA | 10.2 |

DATA FROM NATIONAL CLIMATIC CENTER FEDERAL BUILDING - ASHEVILLE, N.C., 28801

238965

ALL BOOM (LET.) T. 12/18/52 - 6/28/60 HEIGHT ABDVE GROUND State Park ALL WEATHER LOCATION CLA 88 33 45', 118008', 10' Alamitos Beach, SP STATION NAME

019W

| WIND SPEED | 3.6 | 3.8 | 0.4 | 4.5 | 4.4 | 3.9 | 5.8 | 6.5 | 0.9 | 5.6 | 6.9 | 10.2 | 7.8 | 7.6 | 7.4 | 3.4 | | 6.1 |
|---------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|-----|-----|-----|-----|-----------|------|
| W. | 6.8 | 8.9 | 7.5 | 6.1 | 3.7 | 2.9 | 2.7 | 4.4 | 4.5 | 9.9 | 11.0 | | 4.7 | 3.3 | 4.9 | 3.7 | 1 | 8.00 |
| | | | | | | | | | | | | | | | | | X | |
| | | | | | | | | | | | | | | | | | X | |
| | | | | | | | | | | | | | | | | | X | |
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| | | | | | | | | | | | | | | | | | \bigvee | |
| | | | | | | | | | | | | | | | | | \bigvee | |
| MENT DIR. | 2 | NNE | NE | ENE | . 4 | ESE | 38 | SSE | \$ | SSW | SW | WSW | * | WAW | MM | MNW | CALM | |

37 2hn

| ALL | BRUIS (LA.T.) | | MEAN WIND SPEED | 2.2 | 2.3 | 2.5 | 3.3 | 3.0 | 3.6 | 3.7 | 3.9 | 8 | 4.0 | 4.2 | 4.1 | 4.2 | 3.5 | 3.3 | 2.7 | | 3.5 | |
|-----------------------|-----------------------|-------------------------|-----------------------|-----|-----|------|-----|-----|-----|-----|-----|-----|------|------|-----|------|-----|-----|-----|-----------|-------|--|
| | 1 | | * | 8.1 | 4.4 | 17.3 | 2,4 | 7.6 | 1.6 | .8 | 1.5 | 6.9 | 1.6 | 14.1 | 4.9 | 17.6 | 1.4 | 4.1 | 0.7 | | 100.0 | 87,152 |
| | | | | | | | | | | | | | | | | | | | | X | | RVATIONS |
| | | 1 | | | | | | | | | | | | | | | | | | X | | TOTAL NUMBER OF OBSERVATIONS |
| 69/ | | | | | | | | | | | | | | | | | | | | X | | TOTAL NUM |
| 1/1/55 - 12/31/69 | | | | | | | | | | | | | | | | | | | | X | | rict |
| 1/1/55 | r Blvd. | o a | | | | | | | | | | | | | | | | | | X | | South Coast Air Quality Management District 9420 Telstar Avenue El Monte, CA 91731 |
| N TARACTA CONTRACTA | 2320 Poplar Blvd. | 30° HEIGHT ABOVE GROUND | | | | | | | | | | | | | | | | | | X | | agemer |
| 1 | 1 | 30° | | | | | | | | | | | | | | | | | | \bigvee | | Lty Mar |
| | 09', 43 | | | - | | | | | | | | | | | | | | | | X | | r Quali renue 91731 |
| STATION MANE | 34°05', 118°09', 430' | | | | | | | | | | | | | | | - | | | | \bigvee | | ast A1 |
| 17474 | 34,05 | | | | | | | | | | | | | | | | | | | \bigvee | | South Coast Air Qua 9420 Telstar Avenue El Monte, CA 91731 |
| Alhembre | | | | | | | | | | | | | | | | | | | | \bigvee | | |
| Alh | | | SCHIR. | z | NX. | × | SKE | . 3 | ESE | SE | SSE | s | \$5W | SW | WSW | * | WHW | MW | NNW | CALM | | Data from |
| ALM 03TW Status | | | | | | | | | | | | | | | | | | | - | | | |

These data are available on an hourly basis. Note:

| ALL | Beatta | ALL | BOOM (L.E.T.) | | | |
|-----------------|--------------|-------------|--|----------|-----|---------------------|
| FS3 1970 - 1974 | STOTION SAME | ALL WEATHER | 34 06', 118°08', 480, 2200 W. Main St. | LOCATION | 35' | HEIGHT ABOVE GROUND |
| Alhambre, FS3 | | | • | ı | | • |
| ALMB 119W | \$74.710a | | | | | |

| NNE NNE NNE NNE NNE NNE NNE NNE SST SST SST SST SST SST SST SST SST SS | N. P. | | | | | | | | | | | M. | WIND SPEED |
|--|---|---------|-------------------|---------|--------|--------|---------|-----|-----------|-------------|----------|-------|---------------|
| ### 1.00 ### 1.00 ### 1.00 ### 1.00 ### 1.00 ### 1.00 ### 1.00 ### 1.00 ### 1.00 ### 1.00 #### 1.00 ################################## | z | | | | | | | | | | | 11.3 | 2.2 |
| 3.7 3.7 3.7 3.7 3.7 3.7 3.7 3.7 3.7 3.7 | NN. | | | | | | | | | | | 4.0 | 2.0 |
| 3.5 3.7 3.7 3.7 3.7 3.8 3.7 3.8 3.8 3.8 3.8 3.8 3.8 3.8 3.8 3.8 3.8 | ž | | | | | | | | | | | 3.7 | 2°8 |
| ### 1977 ### 1970 #### 1970 ################################### | ENE | | | | | | | | | | | 3.5 | 3.8 |
| 3.2 3.4 3.5 3.7 | . 11 | | | | | | | | | | | 3.7 | 4.7 |
| 2.8 2.8 3.7 | ESE | | | | | | | | | | | 3.2 | 3.5 |
| 3.2 3.2 3.5 | SE | | | | | | | | | | | 2.8 | 2.9 |
| 9.6 9.6 9.6 9.73 14.9 16.7 16. | SSE | | | | | | | | | | | 3.2 | 3.0 |
| 9.7 14.9 14.9 14.9 14.9 14.9 14.9 14.9 14.9 14.9 14.9 14.1 1 | s | | | | | | | | | | | 9.6 | 7.5 |
| 14.9 | SSW | | | | | | | | | | | 9.7 | 4.4 |
| 16.7 16.7 16.7 16.7 16.8 16.9 | \$W | | | | | | | | | | | 14.9 | 6.1 |
| from South Coast Air Quality Management District 700A NUMBER of ONSERVATION 36,861 | WSW | | | | | | | | | | | 16.7 | 5.5 |
| from South Coast Air Quality Management District 9420 Telstar Avenue El Monte. CA 91731 | * | | | | | | | | | | | 4.9 | 2.8 |
| from South Coast Air Quality Management District Ford Number of Observation 36,861 El Monte. CA 91731 | WHW | | | | | | | | | | | 2.5 | 3.4 |
| from South Coast Air Quality Management District 19420 Telstar Avenue El Monte. CA 91731 | MM | | | | | | | | | | | 1.8 | 5.9 |
| from South Coast Air Quality Management District 19420 Telstar Avenue El Monte. CA 91731 | MNM | | | | | | | | | | | 4.4 | 2.0 |
| from South Coast Air Quality Management District 9420 Telstar Avenue El Monte. CA 91731 | | | | | | | | | | | | | |
| from South Coast Air Quality Management District 1012 Number of Observations 36,861 El Monte, CA 91731 | CALM | X | $\langle \rangle$ | X | X | X | X | X | X | X | X | | |
| from South Coast Air Quality Management District rord Number of Observations 9420 Telester Avenue 12 Monte. CA 91731 | | | | | | | | | | | | 6.66 | 4.0 |
| El Monte, CA 91731 | | | oast Ai | r Quali | ty Man | agemen | t Distr | ict | TOTAL NUM | HER OF ORSE | RYATIONS | 36,86 | |
| | | El Mont | e. CA | 91731 | | | | | | | ı | | |

These data are available on an hourly basis. Note:

| ALL | Beats | ALL | BOUND (L.S.T.) | | | | |
|-----------------|-------------------|-------------|----------------|---|----------|-----|---------------------|
| 2/16/53-1/10/63 | STATION NAME VEAD | ALL WEATHER | CLA33 | 34 11', 118 08', 1340', 780 E. Foothill Blwd. | LOCATION | 30, | HEIGHT ABOVE GROUND |
| ALT Alta | 8747404 | | | | | | |

| Z Z Z Z | | | | | | | | | | | 3¢ | WIND SPEED |
|---------------|--|-----------------|--------|-------|--------|--------|------|-----------|------------------------------|-----------|--------|---------------|
| ¥ = 5 | | | | | | | | | | | 8.0 | 3.1 |
| 37 27 | | | | | | | | | | | 19.8 | 3.2 |
| *7 | | | | | | | | | | | 0.6 | 3.0 |
| | | | | | | | | | | | 3.7 | 3.4 |
| | | | | | | | | | | | 0.9 | 3.4 |
| 151 | | | | | | | | | | | 9•9 | 3.9 |
| SE | | | | | | | | | | | 8.3 | 3.7 |
| SSE | | | | | | | | | | | 9.4 | 3.7 |
| 59 | | | | | | | | | | | 12.0 | 4.1 |
| SSW | | | | | | | | | | | 6.3 | 4.3 |
| SW SW | | | | | | | | | | | 2.8 | 3.9 |
| WSW | | | | | | | | | | | တီ | 4.3 |
| W | | | | | | | | | | | 3.0 | 400 |
| WIW | | | , | | | | | | | | 1.1 | 4.1 |
| NW | | | | | | | | | | | 1.4 | 3.5 |
| NOW | | | | | | | | | | | 1.5 | 3.2 |
| | | | | | | | | | | | | |
| CALM | X | X | X | X | X | X | X | X | X | X | - | |
| | | | | | | | | | | | 6.66 | 3.6 |
| Data from Sou | South Coast Air Quality Management District 9420 Telstar Avenue | t Air ar Ave | Qualit | y Man | agemen | t Dist | rict | TOTAL NUM | TOTAL NUMBER OF OSSERVATIONS | ERVATIONS | 53,276 | 10 |

Note: These data are available on an hourly basis.

| | ALL | Bearin | AFF | BOOMS (L.S.T.) | | | | |
|---|------------------------------|---------------------|-------------|----------------|--|----------|-----|---------------------|
| | Anshein APCD 1/1/58-12/31/73 | STATION HASE TELEBO | ALL WEATHER | CLASS | 33°49', 118 25', 735', 9846 Harbor Brvd. | LOCATION | 45, | HEIGHT ABOVE GROUND |
| - | APCD | 57a.7 tha | | | | | | |

| MEAN WIND SPEED | 1.5 | 2.5 | 2.7 | 7.5 | 2 1 | 2 | 2.3 | 2.0 | 23 | 4.7 | 5.1 | 77-77 | 3.5 | 4.0 | 2.3 | 2.1 | | 3 0 |
|-----------------------|-----|-----|------|-----|-----|-----|-----|-----|------|-----|------|-------|-----|-----|-----|-----|-----------|-----|
| M. | 3.2 | 2.3 | 14.2 | 2.6 | 7.0 | 2.4 | 7.7 | 3.1 | 10.5 | 6.9 | 18.3 | 4.2 | 9.2 | 2.1 | 2.8 | 0.5 | | 0 |
| | | | | | | | | | | | | | | | | | X | |
| | | | | | | | | | | | | | | | | | X | |
| | | | | | | | | | | | | | | | | | X | |
| | | | | | | | | | | | | | | | | | X | |
| | L | | | | | | | | | | | | | | | | X | |
| | | | | | | | | | | | | | | | | | M | |
| | | | | | | | | | | | | | | | | | X | |
| | | | | | | | | | | | | | | | | | X | |
| | | | | | | | | | | | | | | | | | X | |
| | | | | | | | | | | | | | | | | | X | |
| | | | | | | | | | | | | | | | | | \bigvee | |
| MPH DIR. | z | NNE | N. | ENE | . 1 | ESE | SE | SSE | ~ | WS8 | NS. | WSW | × | WWW | MM | NNW | CALM | |

Data from South Goast Air Quality Management District 9420 Telstar Avenue El Monte, CA 91731 These data are available on an hourly basis. Note:

| ALL | MOMTH | ALL wouss (L.B.T.) |
|----------------------------------|--------------|---|
| December 1960 thru November 1965 | YEARD | ALL WEATHER c. 1. 1. 1. 1. 1. 2,930' LOCATION |
| Apple Valley, California | STATION MAMS | 34° 32', 1 |

STATIOS

HEIGHT ABOVE GROUND

| MEAN WIND SPEED | | | | | | | | | | | | | | | | | | |
|-----------------------|-------------|------|-----|-----|-----|------|-----|-----|------|------|-----|------|-----|-----|-----|-----|-----------|-------|
| × | 2.3 | 2.5 | 1.3 | 1.0 | 0.9 | 0.5 | 0.3 | 1.4 | 11,7 | 13.8 | 4.5 | 5.9 | 6.7 | 2.4 | 0.9 | 1.4 | 42.5 | 100.0 |
| | | | | | | | | | | | | | | | | | X | |
| | | | | | | | | | | | | | | | | | X | |
| | | | | | | | | | | | | | | | | | \bigvee | |
| | | | | | | | | | | | | | | | | | X | |
| 0 ∤ ∧ | | | | | | | | | | | | | | | | | X | |
| 17-27 28-40 | 0.0 | 0.0 | | | | | 0.0 | | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | 0.0 | X | 0.2 |
| 17-27 | 0.1 | 0.2 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 2.1 | 2.0 | 0.3 | 9.0 | 1.0 | 0.3 | 0.0 | 0.0 | \bigvee | 6.8 |
| 7-10 11-16 | 7. 0 | 0.8 | 7.0 | 0.3 | 0.2 | .0.1 | 0.0 | 0.5 | 0.9 | 8.9 | 1.6 | .1.6 | 1,8 | 9.0 | 0.1 | 0.2 | \bigvee | 21.3 |
| 7-10 | 1.1 | 1.0 | 0.5 | 7.0 | 7.0 | 0.2 | 0.1 | 0.5 | 3.1 | 4.4 | 2.0 | 2.3 | 2.3 | 6.0 | 7.0 | 9.0 | X | 20.5 |
| 9-17 | 0.7 | 4.0 | 0.3 | 0.2 | 0.3 | 0.1 | 0.1 | 0.3 | 0.5 | 9.0 | 0.7 | 1.4 | 1.6 | 0.5 | 0.3 | 0.5 | X | 8.7 |
| 1-3 | 0.0 | 0.0 | 0.0 | | | 0.0 | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | 0.0 | \bigvee | 0.1 |
| SPEED MPH DIR. | z | N.N. | Z. | ENE | , 3 | ESE | SE | SSE | s | SSW | >×S | WSW | * | WHW | WM | WNW | CALM | 42.5 |

FEDERAL BUILDING - ASHEVILLE, N.C., 28801 DATA FROM NATIONAL CLIMATIC CENTER

TOTAL NUMBER OF OBSERVATIONS

27,982

| ALL | MOST 18 | ALL | BOURS (L.B.T. | | | |
|----------------------------------|--------------|-------------|---------------|-------------------------|----------|---------------------|
| December 1949 thru November 1958 | ATVDD | ALL WEATHER | CLASS | 40° 54', 124° 06', 226' | LOCATION | HEIGHT ABOVE GROUND |
| Arcata, California CAA | STATION NAME | ALL V | | 400 541 | | HEIGHT |
| 24283 | 87a710a | | | | | |

| MPH DIR. | 1-3 | 4-10 | 11-21 | 22-27 | 4-10 11-21 22-27 28-40 | V 40 | | | | | | at. | MEAN WIND SPEED |
|-----------|------|----------|-------|-------|------------------------|------|-----------|---|---|---|---|-------|-----------------------|
| z | 0.7 | 2.0 | 0.7 | 0.1 | 0.0 | | | | | | | 3.4 | 7.8 |
| N.N. | 0.3 | 0.8 | 0.1 | | 0.0 | | | | | | | 1.1 | 5.8 |
| 2 | 1.2 | 2.2 | 0.1 | 0.0 | | | | | | | | 3.5 | 6.4 |
| ENE | 0.8 | 1.6 | 0.0 | 0.0 | | | | | | | | 2.4 | 4.8 |
| | 2.3 | 3.7 | 0.1 | 0.0 | 0.0 | | | | | | | 6.2 | 9.4 |
| ESE | 6.0 | 2.2 | 0.3 | 0.0 | 0.0 | | | | | | | 3.5 | 9 |
| SE | 2.3 | 7.8 | 2.2 | 0.1 | 0 | | | | | | | 12.4 | 7.5 |
| SSE | 8.0 | 2.6 | 0.7 | 0.0 | | | | | | | | 4.1 | 7.1 |
| s | 1.3 | 5.6 | 0.5 | 0.0 | 0.0 | | | | | | | 4.5 | 6.4 |
| SSW | 0.4 | 1.1 | 0.3 | 0.0 | | | | | | | | 1.5 | 7,1 |
| Sw | 1.0 | 2.5 | 0.3 | 0.0 | 0.0 | | | | | | | 3.9 | 6.2 |
| WSW | 0.4 | 1.5 | 0.1 | 0.0 | 0.0 | | | | | | | 2 , | 0 9 |
| * | 1.1 | 3.7 | 0.3 | 0.0 | 0.0 | | | | | | | 5.1 | 5.9 |
| WNW | 0.5 | 3.3 | 0.8 | 0.0 | 0.0 | | | | | | | 4.5 | 7.7 |
| NW | 1.1 | 9.9 | 5.5 | 0.4 | 0.0 | | | | | | | 13.6 | 10.6 |
| NNW | 0.3 | 2.0 | 1.7 | 0.2 | 0,1 | | | | | | | 4.3 | 11.3 |
| | | | | | | | | | | | | | |
| CALM | X | X | X | X | X | X | \bigvee | X | X | X | X | 23.3 | 5.7 |
| 23.3 15.4 | 15.4 | 46.2 137 | 13 7 | 0 | - 0 | | | | | | | 100.0 | |

DATA FROM NATIONAL CLIMATIC CENTER FEDERAL BUILDING - ASHEVILLE, N.C., 28801

7,837

TOTAL NUMBER OF OBSERVATIONS

-55-

| ALL | | BOWES (LR.Y.) | | |
|------------------------------|-------------|-------------------------------------|----------|----------------------------|
| Artesia signe mast 1956-1960 | ALL WEATHER | 33°52', 118°05', 50', 11931 So. St. | LOCATION | 251 HEIGHT ABOVE GROUND |
| ART D82W | | | | |

| | | | | | | | X | South Coast Air Quality Management District Ford Number of Observances |
|--|--|--|--|--|---|--|---|--|
| | | | | | - | | X | Alr Quality Ma Avenue |

| 934 through 1938 ALL | ALL | | |
|-----------------------------|-------------|--------------------------|----------|
| Auburn, California 1934 thi | ALL WEATHER | 38° 57', 121° 04', 1650' | LOCATION |

| MPH 4-15 16-31 3: | 1.8 0.1 | NNE 0.7 0.1 | NE 2.9 0.1 | ENE 1.3 0.0 | 126.6 | ESF 5.1 0.2 | 10.9 1.0 | | \$ 6.6 1.3 | ssw 3.3 0.5 | 0.3 | | w 4.7 0.0 | WWW 1.9 0.0 | | NNW 0.8 0.1 | CALM | |
|-----------------------|---------|-------------|------------|-------------|-------|-------------|----------|-----|----------------|-------------|------|-----|-----------|-----------------|------|-------------|------|--|
| 16-31 32-47 >47 | | 0.0 | 0.0 | | | | 0.0 0.0 | 0.1 | 0.0 | 0.0 0.0 | 0.0 | | | | | | X | |
| | | | | | | | | | | | | | | | | | X | |
| | | | | | | | | | | | | | | | | | X | |
| | | | | | | | | | | | | | | | | | X | |
| × | 1.9 | 8.0 | 3.0 | 1.3 | 0.75 | 2.3 | 200 | 9.4 | 7.9 | 3.8 | 10.2 | 800 | 7.4 | 1.0 | 8. 7 | 6.0 | 7.2 | |
| WEAN WIND SPEED | | | | | | | | | | | | | | | | | | |

PATA FROM NATIONAL CLIMATIC CENTER FEDERAL BUILDING - ASHEVILLE, N.C., 28801

PERCENTAGE FREQUENCY OF WIND (FROM HOURLY OBSERVATIONS) DIRECTION AND SPEED

| | - | ALL | V | BOULD (L.S.T.) | | | | |
|-----|-----------------|--------------|-------------|----------------|--|----------|-----|---------------------|
| | Azusa 1960-1974 | STATION HAME | ALL WEATHER | CLASS | 34 08', 117 56', 600', 803 N. Loren Ave. | LOCATION | 30' | HEIGHT ABOVE GROUND |
| AZU | ML60 | 87A710m | | | | | | |

| WIND | + | , , | 'n | 200 | 3,2 | 2,7 | 200 | 2.6 | 2.9 | 7 | 2 | 4.6 | 4.9 | 4.7 | 3 | 2.5 | 3.0 | | | | 4.0 | |
|------|---|-----|----|-----|----------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----------|--------|-----|-----|------|---|------|---|
| × | 1 | - 0 | 0 | 0 | χ. Υ. | 7 | 2.5 | 2.9 | 2 | 4.8 | 9.4 | 6 | 4°6 | 6.2 | 2,3 | 2,1 | 2.8 | | | - | 6.66 | 103 501 |
| | | | | | | | | | | | | | | | | | | | X | | | YATIONS |
| | | | | | | | | | | | | | | | | | | | X | | | ER OF OBSE |
| | | | | | | | | | | | | | | | | | | | X | X | | TOTAL NUMBER OF OBSERVATIONS |
| | | | | | | | | | | | | | | | | | | | X | X | | |
| | T | | | T | | T | | T | T | T | T | T | 1 | 1 | | | | | X | | | District |
| | | | | | Ī | T | | | | | | 1 | | 1 | | | | | X | 1 | | gement |
| | | | | | | T | T | T | | | | | | | 1 | 1 | | - 1 | X | 1 | | y Mana |
| | | | | | | | | | T | + | | l | | + | | 1 | 1 | 1 | X | 1 | | lualit; nue |
| | | | | | T | t | | | | | | | l | 1 | \dagger | | + | 1 | X | 1 | | Air (|
| | | | | | | | | | | | | | | | - | - | 1 | 1 | X | - | | South Coast Air Quality Management 9420 Telstar Avenue |
| | | | | | | | | | | | | | | | | | 1 | 1 | X | | | |
| M.H. | z | NNE | Z | ENE | . 1 | ESE | SE | SSE | 2 | SSW | SW | WSW | * | WHA | WW | Mary . | | 1 | CALM | | - | Data from |

Note: These data are available on an hourly basis.

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

| ALL | BONTH | 8 obs. | HOURS (L.B.Y.) | | | | |
|-------------------|--------------|-------------|----------------|-------------------------|----------|---------|-------------------|
| 1964 through 1973 | \$ VZA | ALL WEATHER | CLASS | 35° 25', 119° 03', 495' | LOCATION | 20 feet | SOUND ANOMA GROOM |
| Bakersfield | STATION NAME | | | | | | |

23155

| SPEED MPH DIR. | 1-3 | 9-4 | 7-10 | 7-10 11-16 17-21 | 17-21 | >21 | | | | | | ж | |
|----------------------|-----------|-----------|-----------|------------------|-------|------|-------------------|---|---|---|---|-------|--|
| z | 0.5 | 4.7 | 4.1 | 1.1 | 0.1 | | | | | | | 10.6 | |
| Z | 0.2 | 1.7 | 1.6 | 0.4 | 0.0 | 0.0 | | | | | | 3.0 | |
| ž | 0.3 | 1.7 | 1.1 | 0.2 | 0.0 | 0 | | | | | | 33 | |
| ENE | 0.3 | 1.9 | 0.5 | 0.0 | 0.0 | | | | | | | 2.0 | |
| | 0.8 | 5.3 | 1.8 | 0.0 | 0.0 | | | | | | | 0.8 | |
| ESE | 0.7 | 4.2 | 6.0 | 0.1 | 0.0 | 0.0 | | | | | | 5.9 | |
| SE | 8.0 | 0.4 | ω | 0.1 | 0.1 | 0.1 | | | | | | 5.3 | |
| SSE | 9.0 | 2.7 | 9.0 | 0.2 | 0.1 | 0.0 | | | | | | 4.2 | |
| S | 9.0 | 1.9 | 7.0 | 0.1 | 0.1 | 0.0 | | | | | | 7. | |
| SSW | 0.3 | 0.8 | 0.2 | 0.0 | | | | | | | | 1.3 | |
| NS. | 10.4 | 1.2 | - | 0.0 | 0.0 | | | | | | | 1.9 | |
| WSW | 4.0 | 1.7 | - | 0.0 | | | | | | | | 2.7 | |
| * | 9.0 | 2 | - | 0.2 | 0.0 | | | | | | | 5.3 | |
| WMW | 10.4 | 5.6 | | 1.0 | 0.0 | 0.0 | | | | | | 9.9 | |
| W.W. | 4.0 | 3.5 | 6.4 | 5.6 | 0.1 | 0.0 | | | | | | 11.6 | |
| MNN | 0.5 | 3.6 | | 2.4 | 0.2 | 0.0 | | | | | | 11.5 | |
| AVE | 3.0 | 5.0 | 8.2 | 12.5 | 18.3 | 24.1 | | | | | | | |
| CALM | \bigvee | \bigvee | \bigvee | X | X | X | $\langle \rangle$ | X | X | X | X | 11.3 | |
| 11.3 | 7.8 | 44.4 26.9 | 26.9 | 8.7 | 0.8 | 0.1 | | | | | | 100.0 | |

DATA FROM NATIONAL CLIMATIC CENTER FEDERAL BUILDING – ASMEVILLE, N.C., 28801

29,204

TOTAL NUMBER OF OBSERVATIONS

-59-

| ALL | ALL | poets (L.E.T.) | | | | |
|---|-------------|----------------|---|----------|------------------------|----------------------|
| Bakersfield, Meadowsfield, CA 1956 - 1960 | ALL WEATHER | CLASS | 35 ⁰ 25', 119 ⁰ 03', 494' | LOCATION | 60', 20' after 6/20/60 | DADONG STORM PRICE T |

8747100

| 2-4 |
|----------------|
| 2.7 |
| 1.0 0. |
| 0.0 9.0 |
| 1.3 0.0 |
| 0.7 0. |
| 0.5 |
| 0 4 0 |
| 0.2 0.1 |
| 0.2 0.0 |
| |
| 0.0 4.0 |
| 0.8 0. |
| 1.5 0.3 |
| 4.2 2.4 |
| 5.6 3 |
| 3.7 2 |
| |
| X |
| 30.0 23.7 10.1 |

DATA FROM NATIONAL CLIMATIC CENTER FEDERAL BUILDING - ASNEVILLE, N.C., 28801

43,848

TOTAL NUMBER OF OBSERVATIONS

-60-

| 45 ALL | ALL | Rouns (L.o.T.) | |
|---------------------------------|-------------|-------------------------|----------|
| October 1941 thru December 1945 | ALL WEATHER | 35° 30', 119° 11', 427' | LOCATION |
| Bakersfield Minter Fld | ALL V | 350 301, | 7 |

| WIND SPEED | 6.9 | 6.5 | 5.5 | 5.2 | 4.5 | 5.3 | 5.8 | 5.5 | 4.2 | 4.5 | 4.2 | 4.7 | 5.4 | 8.1 | 6.7 | 7.8 | () (Q) | |
|----------------------|------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------------|-------|
| şê. | 15.5 | 4.9 | 7.1 | 3.2 | 4.8 | 4.3 | 9.8 | 3.7 | 2.9 | 1.2 | 1.7 | 0.9 | 3.1 | 4.4 | 14.1 | 11.0 | 7.1 | 100.0 |
| | | | | | | | | | | | | | | | | | X | |
| | | | | | | | | | | | | | | | | | \bigvee | |
| | | | | | | | | | | | | | | | | | \bigvee | |
| | | | | | | | | | | | | | | | | | X | |
| | | | | | | | | | | | | | | | | | X | |
| 24≺ | | | | | | | | | | | | | | | | | \bigvee | |
| 25-31 32-46 >47 | | | | | | | | | | | | | | | | | \bigvee | |
| 25-31 | | | | | | | 0.1 | | | | | | | | 0.1 | 0.1 | X | 0 |
| 13-24 | 0 | 0.2 | 0.1 | | | 0.1 | 0.2 | 0.2 | | | | | 0.5 | 0.7 | 2.0 | 1.1 | \bigvee | T 7 |
| 1-3 4-12 13-24 | 12.3 | 5.4 | 5.3 | 2.3 | 3 | 3.2 | 6.1 | 2.5 | 1.6 | 0.7 | 6.0 | 9.0 | 9. | 5.9 | 6.6 | 8.0 | X | 67 1 |
| 1-3 | 2.5 | 6.0 | 1.7 | 0.8 | 1.7 | 0 | 2.1 | 1.1 | 1.2 | 0.4 | 0.8 | 0.3 | 1:1 | 0.7 | 2.1 | 1.3 | X | 1000 |
| SPEED MPH DIR. | z | N.K. | w Z | ENE | | ESE | SE | SSE | S | SSW | SW | WSW | * | WHW | WW | MNW | CALM | 1 |

DATA FROM NATIONAL CLIMATIC CENTER FEDERAL BUILDING - ASHEVILLE, N.C., 28801

| 8/17/54-4/11/62 Tass | 19/9 | 3/17/54-4/11/62 ALL WEATHER CLASS 376, 144366. Remone Blwd. COCATION 50' HEIGHTAROVE GROUND | All | HOURS (LA.T.) | | MEAN & WIND | + | + | 10.1 | + | t | 4.5 1. | 2.2 4.4 2.2 | 4.5 2. | + | + | 7007 | + | + | 1.2 | + | + | |
|-------------------------|--|---|-----|---------------|------|-------------|---|---|------|---|---|--------|-------------|--------|---|---|------|---|---|-----|---|---|--|
| | ALL WEATHER CLASS 58', 376, 1445E- 106.7164 50' 146.047 ABOVE GR | ALL WEATHE ALL WEATHE CLASS 34 05', 117 58', 376, 14436E, COCATION HEIGHT ABOVE GI | | Ramona Blwd. | OUND | | | | | | | | | | | | | | | | | | |

Note: These data are available on an hourly basis.

Data from South Coast Air Quality Management District 9420 Telstar Avenue El Monte, CA 91731

57,295

| | ALL | MONT | ALI | HOVES (L. | | | |
|---|-----------------------------------|--------------------|-------------|-----------|----------------------|----------|---------------------|
| PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS) | BEALE AFB CALIFORNIA 43-44, 59-70 | STATION NAME VEALS | ALL WEATHER | CLASS | 39007', 121026', 125 | LOCATION | HEIGHT ABOVE GROUND |

93216

| MEAN WIND SPEED | 5.5 | 5.1 | 4.3 | 3.8 | 4.1 | 5.0 | 7.0 | 9.1 | 7.7 | 5.8 | 4.8 | 4.4 | 4.1 | 4.9 | 7.2 | 7.7 | | 5.0 |
|-------------------------|-----|-----|-----|-----|-----|-----|-----|------|------|-----|-----|-----|-----|-----|-----|-----|-----------|----------------|
| ж | 5.2 | 1.3 | 1.2 | 1.0 | 2.7 | 3.9 | 8.1 | 10.4 | 15.4 | 4.7 | 2.7 | 1.2 | 2.3 | 2.9 | 5.5 | 6.2 | 25.2 | 100.0 |
| 17 36 | | | | | | | | | | | | | | | | | \bigvee | |
| 48 - 55 | 0. | | | | | | | | | | | | | | | | X | 0. |
| 41 - 47 | | | | | | | | | | | | | | | | | X | |
| 34 - 40 | | | | | | | | | 0. | | | | | | 0. | | X | 0. |
| 28 - 33 | 0. | 0. | 0. | | 0. | | 0. | 0. | 0. | | | | | | 0. | 0. | X | .1 |
| 22 - 27 | 0. | 0. | 0. | 0. | | 0. | 0. | .1 | .2 | 0. | 0. | 0. | | 0. | 0. | 0. | X | 4 |
| 17 - 21 | .1 | 0. | 0. | 0. | 0. | 0. | .1 | .5 | . 4 | 0. | 0. | 0. | 0. | 0. | .2 | ۳. | X | 1.8 |
| 11 - 16 | 4. | -: | 0. | 0. | 0. | .1 | 1.2 | 2.9 | 2.6 | .2 | -: | 0 | 0. | -1 | 6. | 1.1 | X | 6.6 |
| 7 - 10 | ω. | .2 | 7. | 7. | .3 | 9. | 2.5 | 3.5 | 5.0 | 1.3 | 4. | 7: | .2 | .5 | 1.1 | 1.6 | X | 18.2 |
| 4.6 | 2.2 | .5 | 4. | 4. | 1.3 | 2.0 | 2.9 | 2.4 | 4.7 | | 1.2 | .5 | 1.1 | 1.3 | 2.1 | 2.1 | X | 17.4 27.1 18.2 |
| : | 1.7 | 9. | 9. | .5 | 1.2 | 1.1 | 1.4 | 1.0 | 2.5 | 1.1 | 1.0 | .5 | 1.0 | 1.0 | 1.2 | 1.0 | X | 17.4 |
| SPEED (KNTS) DIR. | z | Z Z | w Z | ENE | | ESE | SE | SSE | S | SSW | Sw. | WSW | * | WHW | ×× | MNN | CALM | 25.2 |
| | | | | | | | | | | | | | | | | | | |

DATA FROM NATIONAL CLIMATIC CENTER FEDERAL BUILDING – ASHEVILLE, N.C., 28801

111333

TOTAL NUMBER OF OBSERVATIONS

-63-

| ALL | MONTH | ALL | HOURS (L.S.T.) | |
|------------------------------|--------------|-------------|----------------------|-------------------|
| July 1938 thru February 1942 | YEARS | ALL WEATHER | CLASS | C3)JZ LOCATION |
| Beaumont, California | STATION MAME | ALL \ | 220 EK 1160 EK 0 EOO | 33 30 , 110 30 , |

STATION

HEIGHT ABOVE GROUND

| MEAN WIND SPEED | 2.0 | 6.7 | 7.5 | 14.7 | 14.I | 15.7 | 8.2 | 6.5 | 8 | 11.6 | 0.6 | 0.6 | 9.2 | 9.8 | 6.5 | 6.4 | 9.1 | |
|-----------------------|-----|-----|-----|------|------|------|-----|-----|-----|------|------|-----|------|-----|------|-----|-----------|-------|
| × | 6.4 | 0.7 | 4.5 | 5.7 | 9.6 | 5.1 | 1.4 | 0.3 | 6.0 | 5.6 | 12.0 | | 11.8 | 9.7 | 17.7 | 1.6 | 1.8 | 100.0 |
| | | | | | | | | | | | | | | | | | \bigvee | |
| | | | | | | | | | | | | | | | | | X | |
| | | | | | | | | | | | | | | | | | X | |
| | | | | | | | | | | | | | | | | | X | |
| | | | | | | | | | | | | | | | | | \bigvee | |
| | | | | | | | | | | | | | | | | | \bigvee | |
| >47 | | | | 0.0 | 0.0 | | | | | | | | | | | | X | 0.0 |
| 32-47 | 0.0 | 0.0 | 0.0 | 0.2 | 0.2 | 0.1 | 0.0 | | | 0.0 | 0.0 | 0.0 | , | | | | \bigvee | 0.5 |
| 16-31 32-47 >47 | 0.0 | 0.0 | 0.3 | 2.0 | 3.4 | 2.5 | 0.1 | 0.0 | 0.1 | 0.5 | 0.6 | 0.3 | 0.1 | 0.2 | 0.2 | 0.0 | \bigvee | 10.3 |
| 4-15 | 7.2 | 9.0 | 3.5 | 3.3 | 5.5 | 5.4 | 1.0 | 0.2 | 9.0 | 5.0 | 10.8 | 9.2 | 11.0 | 9.3 | 16.1 | 1.5 | \bigvee | 81.2 |
| 1-3 | 0.7 | 0.1 | 0.7 | 0.2 | 0.5 | 0.1 | 0.3 | 0.1 | 0.2 | 0.1 | 0.6 | 0.2 | 0.7 | 0.2 | 1.4 | 0.1 | X | 6.2 |
| SPEED MPH DIR. | z | NNE | 3,2 | ENE | , 11 | ESE | SE | SSE | S | SSW | sw. | wsw | * | WNW | WW | MNN | CALM | 1.8 |

29,202

PERCENTAGE FREQUENCY OF WIND (FROM HOURLY OBSERVATIONS) DIRECTION AND SPEED

| ALL | ALL | Beend (L.S.Y.) | | | | WIND | 4.2 | 4.2 | 4.3 | 4.6 | 4.9 | 4.3 | 5.3 | 6.3 | 5.4 | 5.8 | 9•9 | 9.9 | 7.6 | 6.9 | 6.4 | 2.9 | | |
|-----------------|--------------|---------------------|----------|----|---------------------|----------------------|-----|-----|------|-----|-----|-----|-----|------|------|------|------|-----|------|-----|------------|-----|-----------|--|
| | | 1 | | | | * | 7.5 | 0.1 | 15.6 | 0.1 | 8. | 0.0 | 8,1 | 0.0 | 10.0 | 0.1 | 15.8 | 0.1 | 22.5 | 0.1 | 12.1 | 0.0 | | |
| | | | | | | | | | | | | | | | | | | | | | | | X | |
| | | | 1 | | ļ | | | | | | | | | | | | | | | | | | X | |
| | YEARS | attue | | | | | | | | | | | | | | | | | | | | | X | |
| | | 101d Ave | LOCATION | | | | | | | | | | | | | | | | | | | | X | |
| 1/1/55-12/31/73 | | th Gare | | | QN | | | | | | | | | | | | | | | | | | \bigvee | |
| 1/ | ALL WEATHER | 5301 Son | CATION | | HEIGHT ABOVE GROUND | | | | | | | | | | | | | | | | | | X | |
| | ALL W | i . | 1 | 35 | HEIGHT A | | | | | | | | | | | | | | | | | | X | |
| | | ر ، ۱۱۰ | | | | | | | | | | | | | | | | | | | | | X | |
| | BT&TiOn mand | 35050' 118011' 150' | | | | | | | | | | | | | | | | | | | | | X | |
| | B747 | 350 | | | | | | | | | | | | | | | | | | | | | X | |
| Bell | | | | • | | | | | | | | | | | | | | | | | | | \bigvee | |
| | | | | | | SPEED MPH DIR. | z | NNE | 27 | ENE | | 155 | SE | \$5£ | s | WS.8 | SW | WSW | * | WAW | MW | MNM | CALM | |
| GUB Q35W | 8747168 | | | | | | | | | | | | | | | | | | | | | | | |

-65-

These data are available on an hourly basis. Note:

South Coast Air Quality Management 9420 Telstar Avenue El Monte, CA 91731

Data from

152,439

| ALL | MORTH | ALL | NOURS (L.S.T.) |
|--|-------------------|-------------|--|
| Berkeley LRL 1 March 1962 thru February 1968 | STATION MAME TEAM | ALL WEATHER | 37 ⁰ 52', 122 15', 981' Location 40 ' towns roof of Bldg. 4 |
| Berkeley LRL 1 | STATION NAMS | ALL WEATHER | 37 521, 122 151, 122 151, 124 154 154 154 154 154 154 154 154 154 15 |

| WIND SPEED | | | | | | | | | | | | | | | | | | |
|----------------------|------|------|------|------|------|------|------|------|------|------|------|------|-------|------|------|------|-------------|------------------|
| 38 | 1.61 | 1.23 | 2.19 | 3.24 | 4.13 | 4.50 | 7.24 | 9.49 | 8.27 | 7.40 | 6.57 | 7.54 | 10,61 | 8.77 | 6.65 | 3.96 | 6.58 | 86.66 |
| | | | | | | | | | | | | | | | | | X | |
| | | | | | | | | | | | | | | | | | X | |
| | | | | | | | | | | | | | | | | | X | |
| | | | | | | | | | | | | | | | | | X | |
| | | | | | | | | | | | | | | | | | X | |
| | | | | | | | | | | | | | | | | | \setminus | |
| >27 | | | | | | | | | | | | | | | | | \bigvee | |
| 22-27 | | | 00. | .03 | .03 | | .01 | .01 | .01 | | | | | | | | \bigvee | 60. |
| 4-10 11-21 | .05 | .01 | . 20 | 64. | .45 | .17 | .39 | 1.13 | .70 | .18 | .03 | 60. | • | .26 | .13 | 80. | \bigvee | 4.60 |
| 4-10 | 76. | .61 | 1.10 | 1.52 | 1.68 | 1.87 | 3,53 | 4.76 | 4.44 | 3.86 | m | 4.28 | 6.45 | 4.86 | 3,19 | 2.24 | X | 48.66 |
| 1-3 | . 59 | .61 | 88 | 1.10 | 1.97 | 2.46 | 3.31 | 3.59 | 3.12 | 3.36 | 3.24 | 3.17 | 4.02 | 3.65 | 3.33 | 1.64 | X | 40.05 48.66 4.60 |
| SPEED MPH DIR. | z | NNE | ž | ENE | . 3 | ESE | SE | SSE | S | SSW | AS. | WSW | * | WMW | MM | MNN | CALM | 6.58 |

PERCENTAGE FREQUENCY OF WIND (FROM HOURLY OBSERVATIONS) DIRECTION AND SPEED

| ALL | момти | ALL | HOURS (L.B.T.) | | | | |
|------------------|------------|-------------|----------------|------------------------|----------|---------------------------------|---------------------|
| BISHOP APT CALIF | RANZA RAWE | ALL WEATHER | CLASS | 37022', 118022', 4145' | LOCATION | 40' before Dec. 1964, 20' after | HEIGHT ABOVE GROUND |

23157

| MEAN WIND SPEED | 10.0 | 9.5 | 5.9 | 4.7 | 4.7 | 5.4 | 7.6 | 10.5 | 9.6 | 7.9 | 6.5 | 7.5 | 7.3 | 6.7 | 6.4 | 7.3 | | |
|-------------------------|------|-----|-----|-----|-----|-----|-----|------|------|-----|------|-----|-----|-----|------|------|-----------|---|
| * | 14.3 | 4.9 | 2.8 | 6. | 1.4 | 1.0 | 3,3 | 8.3 | 13.2 | 4.8 | 4.6 | 2.8 | 5.0 | 4.6 | 11.7 | 9.8 | 7.9 | |
| % Al | | | | | | | | | | | | | | | | | X | |
| 48 - 55 | | | | - | | | | | | | | | | | | | X | |
| 41 - 47 | 0. | | | | | | | | | | | | | | | | \bigvee | |
| 34 - 40 | 0. | 0. | | | | | | | 0. | | 0. | 0. | 0. | | | 0. | X | |
| 28 - 33 | .1 | 0. | 0. | | | 0 | 0. | 0. | 0. | 0. | 0. | 0. | 0. | | 0. | 0. | X | |
| 22 - 27 | 9. | , 2 | 0. | | | 0. | 0. | .2 | .2 | 0. | 0. | 0. | 0. | 0. | 0. | ۲. | X | |
| 17 - 21 | 1.6 | .5 | .1 | 0. | 0. | 0. | .1 | 8. | 1.0 | .1 | .1 | .1 | .2 | .1 | . 2 | ۳. | X | |
| 11 . 16 | 3.4 | 1,3 | .2 | 0. | 0. | 0. | 9. | 2.9 | 3.8 | 1.0 | • 5 | . 4 | . 7 | . 4 | 6. | 1.1 | X | |
| 7 - 10 | 2.7 | 6. | 5 | .1 | .2 | . 2 | .5 | 2.4 | 4.0 | 1.4 | 1.1 | 9. | 1.2 | 1.3 | 3.0 | 1.9 | X | |
| 4.6 | 4.1 | 1,3 | 1.2 | . 4 | 9. | .5 | 1.0 | 1.5 | 3.3 | 1.7 | 2.0 | 1.2 | 2.0 | 2.1 | 5.7 | 3.8 | X | |
| 1.3 | 1.7 | ∞. | 5. | .3 | 9. | .3 | .7 | • 5 | 1.0 | .5 | 6. | 4. | ω. | .7 | 1.8 | 1.3 | X | |
| SPEED (KNTS) DIR. | z | Z. | ž | ENE | w | ESE | SE | SSE | S | SSW | S.W. | WSW | ж | WNW | WM | NNW. | CAUM | 1 |

FEDERAL BUILDING - ASHEVILLE, N.C., 28801 DATA FROM NATIONAL CLIMATIC CENTER

109147

TOTAL NUMBER OF OBSERVATIONS

-67-

PERCENTAGE FREQUENCY OF WIND (FROM HOURLY OBSERVATIONS) DIRECTION AND SPEED

23225 STATION

| ALL | MONTH | ALL | MOUSS (L.S.T.) | | | |
|----------------------------------|--------------------|-------------|--|----------|---------|---------------------|
| BLUE CANYON CALIFORNIA APT 48-64 | STATION MAKE YEARS | ALL WEATHER | 39 ⁰ 17', 120 ⁰ 42', 5282' | LOCATION | 30 feet | HEIGHT ABOVE GROUND |

| MEAN WIND SPEED | 5.1 | 6.7 | 7.5 | 10.0 | 6.1 | 9 | 7.7 | 9.8 | 10.3 | 11.2 | 8.9 | 7.6 | 6.7 | 5.9 | 5.3 | 5.4 | | | 8.4 |
|-------------------------|-----|------|-----|------|-----|-----|-----|-----|------|------|-----|-----|-----|-----|-----|-----|-------|-----|-------|
| × | 1.9 | 2.5 | 7.2 | 9.1 | 6.1 | 5.6 | 7.1 | 8.0 | 12.2 | 13.0 | 6.6 | 7.2 | 5.1 | 1.7 | 1.3 | 6. | | 1.7 | 100.0 |
| N 92 | | | | | | | | | | | | | | | | | | X | |
| 48 - 55 | | | | | | | | | 0. | 0. | 0. | | | | | | | X | 0. |
| 41 - 47 | | | 0. | 0. | 0. | | | | 0. | 0. | 0. | | | | | | | X | 0. |
| 34 - 40 | | | 0. | 0. | 0. | | 0. | 0. | 0. | .1 | 0. | 0. | 0. | | | | | X | .2 |
| 28 - 33 | | 0. | 0. | .1 | 0. | | 0. | .1 | .1 | .1 | .1 | 0. | | | | | | X | .5 |
| 22 - 27 | 0. | 0. | .1 | 4. | .1 | 0. | 0. | .2 | е. | . 4 | . 2 | 0. | 0. | | 0. | | | X | 1.7 |
| 17 - 21 | 0. | .1 | .2 | . 7 | .1 | 0. | .1 | . 4 | ω. | 6. | .3 | 0. | 0. | 0. | 0. | 0. | | X | 3.7 |
| 11 - 16 | .1 | . 3 | 6. | 2.2 | 9. | 4. | 1.0 | 2.2 | 3.9 | 4.6 | 1.8 | 1.0 | ٠.4 | .1 | 0. | 0. | | X | 19.5 |
| 7 - 10 | 4. | | 2.6 | 2.6 | 1.2 | 1.7 | 2.8 | 3.1 | 4.4 | 4.3 | 3.9 | 3.4 | 2.1 | 9. | .3 | . 2 | | X | 34.4 |
| 4.6 | ω. | 6. | 2.2 | 1.9 | 2.3 | 2.3 | 2.0 | 1.5 | 2.0 | 1.8 | 2.1 | 2.0 | 1.8 | 9. | .5 | . 4 | | X | 24.9 |
| | 7. | 9. | 1.2 | 1.2 | 1.9 | 1.3 | 6. | 9. | Φ. | .7 | 6. | ∞. | Φ. | 4. | 4. | . 3 | | X | 13.3 |
| SPEED (KNTS) DIR. | z | N.Y. | . Z | ENE | ш | ESE | SE | SSE | S | SSW | SW | WSW | W | WNW | WM | NNW | VARBL | | 1.7 |
| | | | | | | | | | | | | | | - | | | | | |

DATA FROM NATIONAL CLIMATIC CENTER FEDERAL BUILDING - ASHEVILLE, N.C., 28801

92883

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

| Blythe, Calif. | ALL |
|---|---------------|
| STATION MADES TEARS | воити |
| ALL WEATHER | ALL |
| CLASS | BOUSS (L.S.T. |
| 33 ^o 37', 114 ^o 43', 394' | |
| LOCATION | |

23158

| MEAN WIND SPEED | 9.2 | 7.2 | 9.9 | 6.3 | 5.9 | 6.3 | 7.0 | 8.6 | 9.7 | 9.3 | 6.7 | 0.6 | 7.3 | 6.7 | 7.9 | 9.5 | | 7.3 | |
|-----------------------|------|-----|-----|-----|-----|-----|-----|-----|------|-----|------|-----|-----|-----|-----|-----|------|-----------|--------------------|
| ж | 10.3 | 2.4 | 1.6 | 1.6 | 2.7 | 2.3 | 3.5 | 5.9 | 16.2 | 5.8 | 6.3 | 6.9 | 5.1 | 2.4 | 4.4 | 7.3 | | 15.4 | 100.0 |
| | | | | | | | | | | | | | | | | | | X | |
| | | | | | | | | | | | | | | | | | | \bigvee | |
| | | | | | | | | | | | | | | | | | | X | |
| | | | | | | | | | | | | | | | | | | \bigvee | |
| | | | | | | | | | | | | - | | | | | | \bigvee | |
| >21 | 0.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | 0.0 | 0.1 | 0.0 | 0.1 | 0.1 | 0.0 | 0.0 | 0.1 | 0.2 | 24.6 | X | 0.7 |
| 7-10 11-16 17-21 | 0.7 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.2 | 0.7 | 0.3 | 0.5 | 0.5 | 1.0 | 0.0 | 0.2 | 0.5 | 18.5 | \bigvee | 3.8 |
| 11-16 | 2.3 | 0.3 | 0.1 | 0.1 | 0.1 | 0.1 | 0.3 | 1.4 | 5,3 | 1.6 | 1.6 | 1.4 | 9.0 | 0.2 | 9.0 | 1.6 | 13.3 | \bigvee | 17.5 |
| 7-10 | 2.9 | 0.7 | 0.4 | 0.4 | 0.7 | 0.7 | 1,3 | 2.4 | 6.2 | 2.0 | 2.0 | 2.4 | 1.7 | 9.0 | 1.3 | 2.1 | 8.4 | \bigvee | 2.1 32.5 27.8 17.5 |
| 4-6 | 3.9 | 1.3 | 1.0 | 1.0 | 1.8 | 1.4 | 1.7 | 1.9 | 3.7 | 1.8 | 1.9 | 2.4 | 2.5 | 1.4 | 2.1 | 2.8 | 5.0 | \bigvee | 32.5 |
| 1-3 | 0.2 | 0.1 | 0.1 | 0.1 | 0.2 | 0.1 | 0.1 | 0.1 | 0.2 | 0.1 | 0.1 | 0.1 | 0.2 | 0.1 | 0.1 | 0.2 | 2.9 | X | 2.1 |
| MPH DIR. | z | NNE | N. | ENE | , 2 | ESE | SE | SSE | so | SSW | S.W. | WSW | * | WWW | NW | MNM | Avg. | CALM | 15,4 |
| | | - | | | - | - | - | _ | _ | - | | _ | | | | - | | | |

DATA FROM NATIONAL CLIMATIC CENTER FEDERAL BUILDING - ASHEVILLE, N.C., 28801

43800

TOTAL NUMBER OF OBSERVATIONS

-69-

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

| ALL | HOMAN | ALL | HOURS (L.S.T.) | | | |
|------------------------------|--------------|-------------|----------------|-------------------------|----------|---------------------|
| January 1937 - December 1942 | TLARD | ALL WEATHER | CLASS | 42° 03', 124° 17', 44 M | LOCATION | HEIGHT ABOVE GROUND |
| Brookings, Oregon | STATION NAME | ALL | | 420 031 | | LHOLDI |

| 4-15 | 4-15 16-31 31-47 48- | 31-47 | 48- | | | | | | | | × | MEAN |
|------|----------------------|-----------|-----|-----------|-----------|---|-----------|---|---|---|------|-------|
| _ | | | | | | | | | | | | SPEED |
| | 0.2 | | | | | | | | | | 8.7 | |
| _ | 0,1 | | | | | | | | | | 3.2 | |
| - | 0.2 | | | | | | | | | | 11.3 | |
| - | 0 | | | | | | | | | | 0.7 | |
| | 0 | | | | | | | | | | 2.1 | |
| | 0 | 0 | | | | | | | | | 0.7 | |
| | 1.5 | 0.1 | 0 | | | | | | | | 9.5 | |
| | 0.2 | 0 | | | | | | | | | 1.5 | |
| 7.2 | 1.0 | 0,1 | | | | | | | | | 8.3 | |
| 0.3 | 0.1 | | | | | | | | | | 0.4 | |
| 4.0 | 0,3 | 0 | | | | | | | | | 4.3 | |
| 0 | 0 | | | | | | | | | | 0.2 | |
| 4.4 | 0.2 | | | | | | | | | | 9.4 | |
| 9.0 | | | | | | | | | | | 9.0 | |
| | 1.1 | | | | | | | | | | 6.8 | |
| 0.3 | 0 | | | | | | | | | | 0.3 | |
| | | | | | | | | | | | | |
| N / | \bigvee | \bigvee | X | \bigvee | \bigvee | X | \bigvee | X | X | X | 34.6 | |
| 60.2 | 6.4 | 0.2 | 0 | | | | | | | | 6.66 | |

Data from Columbia Basin Climatological Handbook

| 1 1 | BEATION MARG | BARE | | | | 1979-1914 | | | | | | |
|----------------|--------------|-------|-------|----------|--------------------------------------|-----------|--------------|--------------|---|---|--------------|-----|
| 1 | | | | ALL | ALL WEATHER | | | - | | | | |
| | 33 53 | , 118 | 1, 16 | 5608 Lei | 33 53', 118 01', 16608 Lemont Avenue | enne | | | | | Mense (LET.) | |
| | | | | 35, | LOCATION 15° | | | | 1 | | | |
| | | | | HEIGHT | HEIGHT ABOVE GROUND | NND | | | 1 | | | |
| SPEED MPH DIR. | | | | | | | | | | | * | |
| z | | T | | | | | 1 | \downarrow | | | r | |
| NNE | | | | | | | \downarrow | | | | | |
| NZ. | | | | | | | 1 | | | | 1 | |
| ENE | | | | | | | | | | | 7.2 | |
| | | | | | | | 1 | | | | 7 | |
| ESE | | | | | | | - | | | | | |
| 38 | | | | | | 1 | | | | | 9.1 | |
| SSE | | | | | | | | | | | 200 | |
| ~ | | | | | | | | | | | 70 | |
| \$5W | | | Γ | | | | | | | | 9 | |
| SW | | | | | | | | | | | 3 | |
| WSW | | | | | | | | | | | 70 | - 1 |
| * | | | | | | | | | | | 7 | - 1 |
| WHW | | | | | | | | | | | 2 | - 1 |
| NW | | | | | | | | | | | 3 | - 1 |
| NNW | | | | | | | | | | | 2.2 | |
| | - | 1 | | | | | | | | | | |
| CALM | X | X | X | X | X | X | X | X | X | X | | |
| | | | | | | | | | | | 0.00 | |

These data are available on an hourly basis. Note:

PERCENTAGE FREQUENCY OF WIND (FROM HOURLY OBSERVATIONS) DIRECTION AND SPEED

| ALL | MONTH | ALL | HOURS (L.S.T.) | | | |
|-----------------------|--------------|-------------|----------------|---|----------|---------------------|
| Burbank, CA 1960-1964 | STATION HAME | ALL WEATHER | CLASS | 34 ⁰ 12', 118 ⁰ 22', 725' | LOCATION | HEIGHT ABOVE GROUND |
| 23152 | 87A7108 | | | | | |

| MEAN WIND SPEED | 5.2 | 6.2 | 0.9 | 4.5 | 4.7 | 6.3 | 6.5 | 8.9 | 6.9 | 5.9 | 4.4 | 4.1 | 4.6 | 5.4 | 5.8 | 6.5 | | 5.7 | |
|-----------------------|-----|-----|-----|-----|------|------|-----|------|------|-----|-----|-----|-----|-----|-----|-----|------|-----------|---------------|
| ЭR | 3.9 | 2.0 | 1.6 | 2.2 | 4.8 | 12.3 | 8.1 | 11.4 | 18.2 | 7.3 | 3.2 | 2.1 | 2.8 | 4.3 | 4.8 | 5.5 | | 5.7 | 100.0 |
| | | | | | | | | | | | | | | | | | | \bigvee | |
| | | | | | | | | | | | | | | | | | | X | |
| | | | | | | | | | | | | | | | | | | \bigvee | |
| | | | | | | | | | | | | | | | | | | \bigvee | |
| | | | | | | | | | | | | | | | | | | X | |
| > 21 | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | | | | | | 0.0 | 0.1 | 0.1 | 24.8 | X | 0.3 |
| 17-21 | 0.1 | 0.1 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | 0.0 | 0.0 | 0,1 | 0.2 | 0.2 | 18.5 | X | 0.8 |
| 7-10 11-16 17-21 | 0.3 | 0.2 | 0.2 | 0.1 | 0.1 | 0.7 | 0.5 | 0.8 | 9°T | 0.5 | 0.1 | 0.1 | 0.1 | 0.3 | 0.4 | 0.7 | 12.4 | X | 6.8 |
| 7-10 | 0.4 | 0.1 | 0.1 | 0.2 | 7.0 | 4.6 | 3,3 | 5.1 | 8.5 | 2.4 | 0.5 | 0.2 | 0.4 | 0.8 | 0.7 | 0.8 | 8.3 | X | 36.9 28.9 6.8 |
| 4-6 | 1.8 | 0.7 | 0.5 | 1.0 | 2.6 | 5.4 | 3.3 | 4.2 | 6.1 | 2.4 | 1.3 | 0.8 | 1.1 | 1.8 | 1.7 | 2.1 | 4.9 | X | 36.9 |
| 1-3 | 1.3 | 8.0 | 0.7 | 6.0 | 1.4 | 1.6 | 1.0 | 1.1 | 2.0 | 2.0 | 1.3 | 1.0 | 1.2 | 1.3 | 1.6 | 1.5 | 2.3 | X | 5.7 20.7 |
| SPEED M.P.H. | z | NNE | ž | ENE | . 11 | ESE | SE | SSE | S | SSW | SW | WSW | × | WNW | WW | MNN | Avg. | CALM | 5.7 |
| | - | _ | _ | - | - | _ | - | _ | - | - | _ | _ | _ | | | - | | | |

DATA FROM NATIONAL CLIMATIC CENTER FEDERAL BUILDING - ASHEVILLE, N.C., 28801

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND (FROM HOURLY OBSERVATIONS) DIRECTION AND SPEED

Cambria California - Harmony Field June 1943 thru Oct. 1944 ALL WEATHER 981 LOCATION CLASS 071 1210 350 341.

3216

HEIGHT ABOVE GROUND

ALL BOURS (L.B.T.)

| | | | - | | | | l |
|-----------------------|-----|-----|------|-----|-----|-----|---|
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| 247 | | | | | | | |
| 32-46 | | | | | | | |
| 13-24 25-31 32-46 >47 | | | | | | | |
| 13-24 | 0.1 | 0.0 | | | 0.0 | 0.1 | |
| 4-12 | 6.2 | 5.8 | 10.1 | 3.2 | 1,3 | 0.7 | |
| 1-3 | 1.2 | 1.2 | 3.4 | 1,4 | 1.5 | 0.4 | |
| | | | - | | | | f |

| SPEED MPH DIR. | 1-3 | | 13-24 25-31 32-46 >47 | 25-31 | 32-46 | 24≺ | | | | | | ж | MEAN WIND SPEED |
|----------------------|------|-----------|-----------------------|-------|-------|-----------|---|-----------|---|---|---|-------|-----------------------|
| z | 1.2 | 6.2 | 0.1 | | | | | | | | | 7.5 | 5.5 |
| NNE | 1.2 | 5.8 | 0.0 | | | | | | | | | 0.4 | 4.8 |
| N.E | 3.4 | 10.1 | | | | | | | | | | 13.5 | 4.7 |
| ENE | 1.4 | 3.2 | | | | | | | | | | 9.4 | 4.4 |
| E | 1.5 | 1.3 | 0.0 | | | | | | | | | α | 3.7 |
| ESE | 7.0 | 0.7 | 0.1 | | | | | | | | | 7 | 0,9 |
| SE | 1.0 | 1.9 | 0.1 | | | | | | | | | 3.0 | 0 7 |
| SSE | 0.7 | 2.7 | 0.3 | 0.1 | 0.0 | | | | | | | ·α. | 7 2 |
| S | 1.5 | 3.6 | 0.1 | | | | | | | | | C. | 0 |
| SSW | 0.5 | 1.5 | 0.2 | 0.0 | | | | | | | | 0.0 | 6.2 |
| SW | 1.3 | 3.0 | | | | | | | | | | 4.3 | 4.7 |
| WSW | 0.6 | 1.5 | 0.1 | 0.0 | | | | | | | | 2.2 | 5.0 |
| * | 2.0 | 7.2 | p.0 | 0.0 | | | | | | | | 9.6 | 6.0 |
| WNW | 9.0 | 5.0 | 1.2 | 0.1 | 0.0 | | | | | | | 7.0 | 6.8 |
| NW | 2.2 | 14.4 | 5.4 | 0.1 | 0.0 | | | | | | | 22.1 | 9.5 |
| NNN | 1.0 | 3.9 | 0.5 | | | | | | | | | 5.4 | 6.7 |
| | | | | | | | | | | | | 1.4 | |
| CALM | X | \bigvee | X | X | X | \bigvee | X | \bigvee | X | X | X | | |
| 1.4 | 20.5 | 69.2 | 8.5 | 0.3 | 0.1 | | | | | | | 100.0 | 4.9 |

DATA FROM NATIONAL CLIMATIC CENTER

FEDERAL BUILDING - ASHEVILLE, N.C., 28801

12,159

TOTAL NUMBER OF OBSERVATIONS

-73-

| ALL | MONTH | ALL | HOUSE (L.S.T.) | | | | |
|--------------------------------------|--------------------|-------------|----------------|----------------------|----------|---------------------------------|---|
| CAMP PENDLETON, CALIFORNIA MCB 66-72 | STATION NAME YEARS | ALL WEATHER | CLASS | 33018', 117021', 62' | LOCATION | 42' before Dec. 1968, 85' after | CONTRACTOR OF THE PROPERTY OF |

| MEAN WIND SPEED | 4.3 | 4.6 | 4 7 | 4.6 | 4 1 | 3.7 | 5 3 | 7 | 5 5 | 6.1 | 7.1 | 7.5 | 4 | 8.0 | 5.9 | 4.6 | | 5 1 |
|-------------------------|-----|-----|-----|------|-----|-----|-----|-----|-----|-----|------|---------|------|-----|------|-----|-----------|-------|
| × | 1.4 | 2.6 | 3 9 | 3.5 | 2.9 | 1.2 | 1.0 | 2.4 | 5 7 | 8.1 | 10.9 | 14.6 | 16.0 | 3.4 | 8 | . 5 | 20.9 | 000 |
| 12 26 | | | | | | | | | | | | | | | | | X | |
| 48 - 55 | | | | | | | | | | | | | | | | | X | |
| 41 - 47 | | | | | | | | | | | | | | | | | \bigvee | |
| 34 - 40 | | | | | | | | | | | | | | 0. | | | X | • |
| 28 - 33 | | | | | | | | | 0 | | | | | | | | \bigvee | • |
| 22 - 27 | | | | | | | 0. | 0. | 0. | | | 0 | 0. | 0 | | | X | - |
| 17 - 21 | O | 0. | 0. | | 0. | | 0. | 0 | .1 | 0. | .1 | . 2 | . 2 | - | 0. | | X | 7 |
| 11 - 16 | - | .1 | 1. | .1 | 0. | 0. | .1 | . 2 | 4 | . 4 | 1.3 | . 2 . 3 | 2.3 | 8. | .1 | .1 | X | 0 0 |
| 7 . 10 | - | е, | 9 | 9 * | . 3 | - | .2 | | 1.1 | 2.7 | 4.5 | 5.8 | 7.0 | 1.3 | .2 | 0. | X | 2 2 5 |
| 9. | .3 | 1.0 | 1.8 | 1.5 | 1.1 | 4. | .3 | 6. | 2,3 | 3.4 | 3.9 | 4.7 | 4.8 | ω. | . 3 | .2 | X | 376 |
| 1.3 | 8 | 1.2 | 1.4 | 1.3 | 1.4 | .7 | 4. | .7 | 1.9 | 1.6 | 1.2 | 1.6 | 1.7 | .5 | .2 | .3 | X | 17.0 |
| SPEED (KNTS) DIR. | z | NNE | ž | ENE. | 4 | ESE | SE | SSE | s | SSW | SW | WSW | × | WNW | N.W. | MNM | CALM | 0 |

| L CLIMATIC CENTER | LLE, N.C., 28801 |
|--------------------------|------------------------------|
| DATA FROM NATIONAL CLIMA | FEDERAL BUILDING - ASHEVILLE |

23684

ALL BOORD (LR.T.) ALL Beeffil 1/1/56 - 12/31/74 800', 7507 Canoga Park HEIGHT ABOVE GROUND ALL WEATHER CLASS 34° 12', 118° 36'. Canoga Park 062W

| MEAN WIND SPEED | 2.5 | 2.5 | 2.0 | 2.1 | 2.3 | 5.6 | 5.6 | 5.6 | 5.6 | 2.5 | 2.1 | 2.0 | 1 | 2.2 | 5.6 | 2.8 | | 5.9 |
|-----------------------|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|-----|-----|-----|-------|
| p# | 4.4 | 5 1 | ୢ | 7. | | 7.1 | 9.9 | 4.8 | 5.3 | 3.2 | 5.5 | 8.3 | 12.6 | 8.3 | 8.6 | 6.4 | | 100.2 |
| | | | | | | | | | | | | | | | | | X | |
| | | | | | | | | | | | | | | | | | X | |
| | | | | | | | | | | | | | | | | | X | |
| | | | | | | | | | | | | | | | | | X | |
| | | | | | | | | | | | | | | | | | X | |
| | | | | | | | | | | | | | | | | | X | |
| | | | | | | | | | | | | | | | | | X | |
| | | | | | | | | | | | | | | | | | X | |
| | | | | | | | | | | | | | | | | | X | |
| | | | | | | | | | | | | | | | | | X | |
| | | | | | | | | | | | | | | | | | X | |
| MPHP DIR. | z | N.K. | ž | ENE | | ESE | SE | 55E | 2 | SSW | WS. | WSW | * | WWW | WM | NNW | CAM | |

TOTAL NUMBER OF OBSERVATIONS 159,672 CO 11411400 Data from South Coast Air Quair 9420 Telstar Avenue El Monte, CA 91731

These data are available on an hourly basis.

Note:

| ALL | ALL ROUBS (L.B.T.) | | |
|------------------------------------|-----------------------|-----------------------|-----|
| CASTLE AFB CALIF/MERCED 42-72 TAMB | ALL WEATHER | 37022', 120034', 177' | 151 |

23203

| WIND WIND SPEED | 7.0 | 5 2 | 4-4 | 4.3 | 4.5 | 9.9 | 8 | 7.6 | 5 3 | 4 8 | 5.2 | 5.9 | 5.4 | 6.7 | 8 | 8.4 | | 5.9 |
|-------------------------|-----|-----|-----|-----|------|-----|-----|-----|-----|------|-----|-----|-----|-----|------|------|-----------|----------------|
| × | 9.4 | 1.4 | 8 | 2 | 1.6 | 2.7 | 5.2 | 2.9 | 2.4 | 1-1 | 1.4 | 1.2 | 3.3 | 7.3 | 20.1 | 18.5 | 20.3 | 100.0 |
| 95 | | | | | | | | | | | | | | | | | \bigvee | |
| 48 - 55 | | | | | | | | | | | | | | | | | X | |
| 41 - 47 | | | | | | | | | | | | | | | | | X | |
| 34 - 40 | | | | | | 0 | 9 | 0 | | | | | | | 0 | 0. | X | 0. |
| 28 - 33 | d | | | | 9 | 0 | 0 | a | | | | | | 0 | 0 | 0. | X | .1 |
| 22 - 27 | a | O. | | 0 | 0 | 0 | - | 7 | 9 | 0 | 0 | 0 | 0 | 0. | - | .1 | X | .5 |
| 17 - 21 | - | 0. | 0 | 0. | o. | 7 | . 3 | . 2 | 0 | 0 | 0. | 0. | 0. | - | . 5 | , 4 | X | 1.7 |
| 11 - 16 | 1.1 | ,1 | 0. | 0. | 0 | . 3 | . 7 | 4 | 7 | 0. | .1 | .1 | .1 | 9. | 3.1 | 3.5 | X | 10.2 |
| 7 - 10 | 3.7 | .3 | - | ,1 | | 9. | 1.4 | 8 | .5 | .2 | .3 | .3 | | 2.8 | 9.3 | 8.3 | X | 24.5 29.7 10.2 |
| 4.6 | 3.0 | .5 | .3 | .2 | . 5 | 6. | 1.5 | | 1.0 | | | 5. | 7 | 2.8 | 5.4 | 4.7 | X | 24.5 |
| 1.3 | 1.6 | .5 | 4 | .2 | 7 | 8 | 1,1 | 9. | 8 | .5 | .5 | .3 | 1.0 | 1.0 | 1,7 | 1.4 | X | 13.1 |
| SPEED (KNTS) DIR. | z | SVN | ž | ENE | 18.4 | £5E | SE | SSE | s | \$SW | »S | WSW | * | WNW | WM | MNN | CAUM | 20.3 |

DATA FROM NATIONAL CLIMATIC CENTER FEDERAL BUILDING - ASHEVILLE, N.C., 28801

TOTAL NUMBER OF OBSERVATIONS

260322

| ALL | BOSTR | ALL | HOURS (L.S.Y.) | | | | |
|--------------------|-------------------|-------------|----------------|--------------------------|----------|-----|-----------------|
| ony Site 1964-1970 | STATION MAME VEAS | ALL WEATHER | CLASS | 35° 58', 121° 16', 1319' | LOCATION | 10' | HEIGHT ABOON OF |
| Central Stony Site | | İ | | İ | 1 | | l |

BTA 710.0

| MEAN WIND SPEED | | | | | | | | | | | | | | | | | | |
|-----------------------|------|------|------|------|------|------|------|------|------|-------|------|------|------|------|------|------|-----------|-------------|
| ж | 1.59 | 3.69 | 8.20 | 5.26 | 2.13 | 4.13 | 4.38 | 3.29 | 2.48 | 1.58 | 3.40 | 6.74 | 2.58 | 1.13 | 1.45 | 1.50 | 46.49 | 100.00 |
| | | | | | | | | | | | | | | | | | \bigvee | |
| | | | | | | | | | | | | | | | | | X | |
| | | | | | | | | | | | | | | | | | \bigvee | |
| | | | | | | | | | | | | | | | | | \bigvee | |
| > 31 | | | | | | | | | | | | | | | | | \bigvee | |
| 25-31 | | | | | | | | | | | | | | | | | \bigvee | 0.02 |
| 19-24 | | | | | | | | | | | | | | | | | \bigvee | 01.0 |
| 8-12 13-18 19-24 | | | | | | | | | | | | | | | | | \bigvee | 96.0 |
| 8-12 | | | | | | | | | | | | | | | | | \bigvee | 09.9 |
| 4-7 | | | | | | | | | | | | | | | | | \bigvee | 30.01 15.82 |
| 1-3 | | | | | | | | | | | | | | | | | \bigvee | 30.01 |
| SPEED MPH DIR. | z | NNE | ž | ENE | | ESE | SE | \$58 | s | \$SW. | »s | wsw | * | WWW | WW | MNM | CAUM | 46.49 |
| | | | | | | | | | | | | | | | | | | |

| HOM | AL | BOURS (| | |
|--------------|---------|-------------|-----------------------------------|--|
| YEARS | THER | SS | - | 200 |
| STATION MANG | ALL WEA | CLA | 390 481, 121 ⁰ 511, 25 | ZCIF 4 CC |
| | | ALL WEATHER | FER YEARS | ALL WEATHER CLASS 681, 121 ⁰ 51 ¹ , 253 ¹ 800 |

STATION

HEIGHT ABOVE GROUND

| MEAN WIND SPEED | 0.7 | 0.9 | 5.7 | 5.0 | 5.3 | 7.6 | 11.7 | 1:1 | 8.1 | 6.5 | 5.4 | 5.1 | 5.2 | 7.1 | 10.9 | 9.8 | | 8.4 |
|------------------------|-----|-----|-----|-----|------|-----|------|------|------|-----|-----|-----|-----|-----|------|-----|-------------------|-----------|
| × | 4.5 | 2.4 | 5.5 | 2.0 | 3.1 | 3.9 | 14.9 | 11.8 | 10.2 | 2.4 | 2.5 | 1.0 | 2.7 | 2.4 | 11.7 | 5.6 | 1 | 100.0 |
| | | | | | | | | | | | | | | | | | X | |
| | | | | | | | | | | | | | | | | | X | |
| | | | | | | | | | | | | | | | | | $\langle \rangle$ | |
| | | | | | | | | | | | | | | | | | $\langle \rangle$ | |
| | | | | | | | | | | | | | | | | | $\langle \rangle$ | |
| 24< | | | - | | | | | 0.0 | | | | | | | | | X | 0.0 |
| 32-46 | 0.0 | | | | | | 0.1 | 0.1 | 0.0 | | | | | 0.0 | 0.1 | 0.0 | X | 0.3 |
| 25-31 | 0.1 | 0.0 | 0.0 | | 0.0 | 0.0 | ω. | 0.3 | 0.0 | 0.0 | 0.0 | | 0.0 | 0.0 | 0.7 | 0.2 | X | 2.1. |
| 4-12 13-24 25-31 32-46 | 0.5 | 0.1 | 0 | 0.0 | 0.1 | 0.5 | 5.1 | 3.9 | 1.7 | 0.1 | 0.1 | 0.0 | 0.1 | 0.3 | 3.5 | 1,3 | X | 17.5 |
| 4-12 | 0.4 | 2.3 | 5.4 | 0. | 0.0 | 3.5 | 0.0 | 7.4 | 8.4 | 2,3 | 2.5 | 1,0 | 5.6 | 2,1 | 7.5 | 4.0 | X | |
| 1-3 | 6.0 | 0.5 | 0 | 4.0 | 80.0 | 0.5 | 1.0 | 0.8 | 1.4 | 0.5 | 0.7 | 0.3 | 1.0 | 0.5 | 1.2 | 0.5 | X | 12.0 66.7 |
| SPEED MPH DIR. | z | NNE | ž | ENE | | ESE | SE | SSE | S | SSW | sw. | wsw | * | WHW | WW | NNW | CALM | 1.4 |

PERCENTAGE FREQUENCY OF WIND

| | AL | AL | 10 H H J J D E | | |
|---|--|-------------|------------------------|-----|--------------------|
| DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS) | CHINA LAKE, CALIF/INYOKERN NWSED 45-72 | ALL WEATHER | 35041', 117041', 2238' | 181 | CAUCORD MYORA FIRM |

93104

| MEAN WIND SPEED | 9.3 | 7.4 | 4.7 | 4.5 | | | | 6.4 | 9.6 | 10.9 | 10.5 | 10.8 | | 9.1 | | 6 | | 7.1 |
|-------------------------|-----|------|-----|-----|-----|-----|-----|-----|------|------|------|------|-----|-----|-----|-----|-----------|-------|
| ж | 2.8 | 1.0 | 1.5 | . 8 | 3.9 | 2.4 | 5.0 | 2.8 | 10.3 | 8.7 | 16.4 | 6.9 | 8.9 | 2.3 | 3.2 | 1.6 | 21.5 | 100.0 |
| 98 AI | | | | | | | | | | | | 0. | 0. | | | | X | 0. |
| 48 - 55 | • | | | | | | | | | 0. | 0. | 0.0 | 0. | 0. | | 0. | \bigvee | 0. |
| 41 - 47 | 0. | | | | | | | | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | \bigvee | 0. |
| 34 - 40 | 0. | 0. | | | 0. | | 0. | 0. | 0. | 0. | .1 | .1 | .1 | 0. | 0. | 0. | \bigvee | ε. |
| 28 - 33 | 0. | 0. | 0. | | 0. | 0. | 0. | 0. | .1 | .1 | e. | .2 | .2 | 0. | 0. | 0. | X | 1.1 |
| 22 - 27 | .2 | 0. | 0. | 0. | 0. | 0. | 0 | 0. | 4. | 5. | 1.0 | 9. | 5. | .1 | .1 | .1 | \bigvee | 3.5 |
| 17 - 21 | . 3 | | 0. | 0. | 0. | 0. | 0. | | 1.0 | 1.0 | 1.6 | 7. | 6. | .2 | .2 | .1 | \bigvee | 6.2 |
| 11 - 16 | 4. | 7. | 7. | 0. | .2 | 7. | .3 | .2 | 2.0 | 2.3 | 3.3 | 1.1 | 134 | 4. | .5 | .3 | X | 12.8 |
| 7 - 10 | 4. | -1. | .2 | .1 | ω. | 9. | 1.3 | 7. | | 2.3 | 4.4 | 1.6 | | | 9. | .3 | \bigvee | 18.1 |
| 9: | 9. | .3 | 9. | е. | 1.7 | | 2.1 | 1:1 | 2,6 | 1.7 | 3.9 | 1.7 | | 9. | 1.0 | 4. | X | 22.3 |
| 1.3 | ∞. | 4. | 9. | 4. | 1.2 | 9. | 1.2 | 9. | 1.5 | ∞. | 1.8 | 1.0 | 1.7 | .5 | 8. | 4. | X | 14.3 |
| SPEED (KNTS) DIR. | z | av.z | ž | 373 | | ESE | SE | SSE | S | SSW | λS | WSW | * | WHW | XX | WNN | CAUA | 21.5 |

M4178787879787978

FEDERAL BUILDING - ASHEVILLE, N.C., 28801 DATA FROM NATIONAL CLIMATIC CENTER

207031

| AFF | MONTH | ALL | HOURS (1.8.T.) | | | |
|---|---|-------------|----------------|-------------------------|----------|---------------------|
| 1955 | 1 | | | | | |
| Chula Vista. Brown Field. CA April 1945-May 1946. July 1954-May 1 | SALE OF THE STATE OF THE SALE | ALL WEATHER | CLASS | 33° 35', 116° 58', 525' | LOCATION | HEIGHT ABOVE GROUND |
| | | | | | | |

23196

| MEAN WIND SPEED | | | | | | | | | | | | | | | | | | |
|------------------------|-----|-------|-----|-----|-----|-----|-----|-----|-----|------|-----|-----|------|-----|------|-----|-----------|----------------|
| × | 3.1 | 0.5 | 1.4 | 0.5 | 6.3 | 3.2 | 8.2 | 0.8 | 3.0 | 0.9 | 3.4 | 2.5 | 25.3 | 5.0 | 16.9 | 1.0 | 18.1 | 100.0 |
| | | | | | | | | | | | | | | | | | \bigvee | |
| | | | | | | | | | | | | | | | | | X | |
| | | | | | | | | | | | | | | | | | X | |
| | | | | | | | | | | | | | | | | | X | |
| | | | | | | | | | | | | | | | | | X | |
| >40 | | | | | | | | | | | | | | | | | X | |
| 31-40 | | | | | | | | | | | | | | | | | X | |
| 8-12 13-20 21-30 31-40 | | | | | 0.1 | 0.1 | 0.0 | 0.0 | 0.1 | | 0.0 | | 0.0 | 0.0 | 0.0 | | X | 0.3 |
| 13-20 | 0.0 | | 0.1 | 0.0 | 0.4 | 0.3 | 9.0 | 0.1 | 0.4 | 0.2 | 0.2 | 0.3 | 2.6 | 0.3 | 6.0 | 0.0 | X | 6.3 |
| 8-12 | 0.5 | 0.0 | 0.1 | 0.1 | 1.4 | 1.0 | 2.6 | 0.2 | 0.7 | 0.3 | 1.5 | 1.3 | 12.3 | 2.4 | 9.8 | 0.2 | X | 33.2 |
| 3-7 | 2.6 | 0.5 | 1.3 | 0.4 | 4.4 | 1.9 | 5.0 | 0.4 | 1.8 | 0.4 | 1.7 | 8.0 | 10,4 | 2.3 | 7.4 | 0.8 | X | 18.1 42.1 33.2 |
| SPEED MPH DIR. | z | m X X | 37 | ENE | . 3 | ESE | SE | SSE | S | SSW. | SW. | WSW | * | WNW | WW | NNW | CAUA | 18.1 |

DATA FROM NATIONAL CLIMATIC CENTER FEDERAL BUILDING – ASHEVILLE, N.C., 28801

TOTAL NUMBER OF OBSERVATIONS 12852

_

PERCENTAGE FREQUENCY OF WIND (FROM HOURLY OBSERVATIONS) DIRECTION AND SPEED

| ALL WEATHER CLA35 38 53 1 LOGATION | Cloverdale Peak PG&E | Nov. 1972 thru Oct. 1974 | ALL |
|--------------------------------------|----------------------|--------------------------|----------------|
| CLASS | | | ALL |
| | | A 65 A TION | MOURS (L.R.T.) |

STATION

-81-

| | _ | _ | _ | - | - | _ | - | - | - | _ | _ | _ | _ | _ | | _ | _ | | |
|-----------------------|------|-----|-----|-----|-----|-----|-----|-----|------|------|-----|-----|-----|-----|-----|-----|---|-----------|-------|
| MEAN WIND SPEED | 8.0 | 5,1 | | | 7.1 | 6.3 | 0.9 | 7.6 | 12.0 | 11.0 | 8.5 | 0.9 | | | 4.9 | 9.9 | | 7.6 | |
| 34 | 24.7 | 5.1 | 4.2 | 4.0 | 5.5 | 1.3 | 2.1 | 4.1 | 10.6 | 5.9 | 8.0 | 5.8 | 4.9 | 2.5 | 5.1 | 5.9 | | 0.1 | 100.0 |
| | | | | | | | | | | | | | | | | | | X | |
| | | | | | | | | | | | | | | | | | | X | |
| | | | | | | | | | | | | | | | | | | X | |
| | | | | | | | | | | | | | | | | | | \bigvee | |
| 7 50 | | | | | | | | | | | | | | | | | | X | |
| 13-18 19-24 25-50 | | | | | | | | | 0.8 | 0.3 | 0.0 | 0.0 | | | | | | X | 1.1 |
| 19-24 | 0.1 | | 0.0 | | 0.0 | | | 0.1 | 1.2 | 0.4 | 0.2 | 0.0 | | | | 0.1 | | X | 2.0 |
| 13-18 | 1.8 | 0.0 | 0.1 | 0.1 | 0.2 | 0.1 | 0.1 | 9.0 | 2.3 | 1.2 | 0.8 | 0.2 | 0.1 | | 0.0 | 0.2 | | X | 7.7 |
| 8-12 | 11.1 | 0.5 | 9.0 | 1.0 | 1.7 | 0.3 | 0.5 | 1.0 | 2.9 | 2.1 | 2.9 | 1.1 | 9.0 | 0.2 | 0.5 | 1.8 | | X | 28.7 |
| 4-7 | 10.2 | 3,5 | 2.6 | 2.4 | 3.1 | 9.0 | 6.0 | 1.8 | 2.8 | 1.6 | 3.5 | 3.4 | 2.7 | 1.0 | 3.1 | 3.2 | | X | 46.5 |
| 1-3 | 1.5 | 1.0 | 6.0 | 0.5 | 0.4 | 0.3 | 9.0 | 0.7 | 0.7 | 0.4 | 9.0 | 1.1 | 1.7 | 1.3 | 1.5 | 0.7 | | \bigvee | 13.8 |
| SPEED M PH DIR. | z | ZZE | ž | EXE | . 3 | ESE | SE | SSE | , | SSW | »S | WSW | > | WWW | WW | WNW | | Calm | 0.1 |

12678

| ALL | | W. T. | |
|--------------|-------------|---|--|
| Coalinga, Ch | ALL WEATHER | 360081, 1200 211, 6761 | |

HEIGHT ABOVE GROUND

| MEAN WIND SPEED | | | | | | | | | | | | | | | | | | |
|-----------------------|-----|----------|------|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------------------|-------|
| × | 5.8 | 2.9 | 12.6 | 0.7 | 11.3 | 0.4 | 3.9 | 0.7 | 8.6 | 1.7 | 9.0 | 9.0 | 3.4 | 0.3 | 2.6 | 0.4 | 35.2 | 100.0 |
| | | | | | | | | | | | | | | | | | X | |
| | | | | | | | | | | | | | | | | | X | |
| | | | | | | | | | | | | | | | | | X | |
| | | | | | | | | | | | | | | | | | X | |
| | | | | | | | | | | | | | | | | | X | |
| | | | | | | | | | | | | | | | | | X | |
| | | | | | | | | | | | | | | | | | X | |
| -1 | | | | | | | _ | | | | | | ` | | | | $\langle \rangle$ | |
| >31 | | | | | | | | | 0.0 | | | | | | | | X | 0.0 |
| 16-31 | 9.0 | 0 | 0.1 | | 0 | | | 0,1 | 0 | 0.4 | 9.0 | | 0.2 | 0.2 | 0 | | X | 3.3 |
| 4-15 | 5.2 | 2.8 | 12.6 | 0.7 | 11.2 | 0.4 | 3.9 | 9.0 | 7.6 | -1 | 8.5 | 9.0 | 3.2 | 0-1 | 2.5 | 0.4 | \bigvee | 61.5 |
| SPEED MDH DIR. | z | NNE E | ž | SZ. | | ESE | SE | SSE | ~ | SSW | SW. | WSW | * | WWW | WW | NNN | CALM | 35.2 |

DATA FROM NATIONAL CLIMATIC CENTER FEDERAL BUILDING - ASMEVILLE, N.C., 28801

TOTAL NUMBER OF OBSERVATIONS

-82-

| 330 54 | | AL I WE | ATHER | | TAME TAME | | | ALIA | 1 |
|---|--------------------|---------------------------|---------------------|--------|-----------|---|---|--------------|-----|
| | 33° 54', 118° 13', | , 100', 212 Acacia Street | 212 Ace | acia S | treet | | | BOOM (LA.T.) | 1 |
| | | HEIGHT AB | HEIGHT ABOVE GROUND | | | | | | |
| | | | | | | | | × | |
| | | | | | | | | 6.1 | 3.3 |
| NNE | 1 2 2 1 | | | | 1 | | | 3.6 | 10 |
| N. S. | | | | | | | | 6.4 | 2.7 |
| ENE | | | | | | | | 4.2 | 3.1 |
| | | | | | | | | 7.2 | 5.2 |
| ESE | | | | | | | | 4.7 | 3.2 |
| SE SE | | | | | | | 1 | 5.0 | 5.5 |
| SSE | | - | | | | | | 4.5 | 0.4 |
| 8 | | | | | | | | 0.9 | 2 |
| SSW | | | | | | | | 3.0 | 5.5 |
| SW. | | | | | | | | 9.4 | 3.6 |
| wsw | | | | | | | | 8.7 | 5.2 |
| w | | | | | | | | 19.9 | 5 |
| WWW | | | | | | | | 10.1 | 5.4 |
| NW | | | | | | | | 5.0 | 3.6 |
| NNW | | | | | | | | 2.5 | 5.1 |
| CALM | X | X | X | | X | X | X | - | |
| | | | | | | | | 100.0 | 4.2 |

Note: These data are available on an hourly basis.

| | ALL | 94710 | ALL | MOUND (LA.T.) | | | MEAN WIND SPEED | 3.8 | 9.6 | 3.4 | 3.2 | 5.4 | 3.5 | 4.1 | 4.9 | 5.5 | 5.3 | | 7.2 | 2.1 | 8.3 | 5.1 | 4.7 | | 5.7 |
|----------------------------|-----------------|--------------|-------------|-----------------------|----------|---------------------|-----------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|-----|-----|-----------|-------|
| | | | | i | | | * | 4.4 | 2.2 | 9.4 | 2.1 | 0.9 | 5.6 | 5.5 | 4.8 | 5.1 | 5.4 | 6.1 | 9.5 | 19.5 | 14.1 | 9.4 | 2.8 | - | 100.0 |
| | | | | | | | | | | | | | | | | | | | | | | | | X | |
| | | | | | | 1 | | | | | | | | | | | | | | | | | | \bigvee | |
| | | YEARS | | 901 W. Alondra Blvd. | | | | | | | | | | | | | | | | | | | | \bigvee | |
| | 1974 | | | londra | | | | | | | | | | | | | | | | | | | | \bigvee | |
| | 1960 - 1974 | | | 1 W. A | | Q. | | | | | | | | | | | | | | | | | | \bigvee | |
| (TROM HOURET OBSERVATIONS) | 1 | | ALL WEATHER | 90 | LOCATION | HEIGHT ABOVE GROUND | | | | | | | | | | | | | | | | | | X | |
| CONF | | | ALL WE | 66 | 100 | HEIGHT | | | | | | | | | | | | | | | | | | X | |
| E CACA | | | | ,0 151, | | | | | | | | | | | | | | | | | , | | | X | |
| | حدٍ | STATION MAME | | 34° 04', 118° 15', 97 | | | | | | | | | | | | | | | | | | | | \bigvee | |
| | Airpor | STATIO | | 340 04 | | | | | | | | | | | | | | | | | | | | X | |
| | Compton Airport | | | 1 | 1 | 1 | | | | | | | | | | | | | | | | | | \bigvee | |
| | ŭ | | | | | | MPH MPH | z | NN | Z | 22 | , 2 | 155 | 35 | SSE | 57 | SSW | SW | WSW | × | WHW | MW | MNN | CAUA | |
| | COMA | STATISME | | | | | | | | | | | | | | | | | | | | | | | |

74,902

TOTAL NUMBER OF OBSERVATIONS

South Coast Air Quality Management District 9420 Telstar Avenue El Monte, CA 91731

Data from

Note. These data are available on an hourly basis.

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

| Concord ALL WEATHER January 1951 - July 1953 Concord ALL WEATHER CLASS CL | ALL | 34 | 6.9 | 1.5 | 0.2 | 8.4 | - | 26.2 10.3 | 14.5 | 9.2 | 4.5 | |
|--|-------------------------|----|-----|-----|-----|-----|---|-----------|------|-----|-----|--|
| 37 ⁰ 59', 122 ⁰ 03' LOCA' HEIGHT ABO | 7 - auty 1900 | | | | | | | | | | | |
| 37°59°, 122°03 | LASS CATION LOSS CATION | | | | | | | | | | | |
| | ALL W | | | | | | | | | | | |
| | | | | | | | | | | | | |

| ALL | BORTH | ALL | MOURS (5.8.T. | |
|------------------------|---------------|-------------|---------------|--|
| Oct. 1949 - Dec. 1954 | TEARS | IER | | |
| Crescent City, CA, FAA | STATION NAME. | ALL WEATHER | CLASS | 41 ^o 47', 124 ^o 14', 56' |
| 24286 | \$74 T-10# | | | |

| l | | |
|---|--------|--|
| | | |
| | C C | |
| | A BOVE | |
| ١ | I | |
| | | |
| | | |

-86-

knots

| MEAN WIND SPEED | 8.3 | 5.7 | 4.4 | 4.2 | 4.2 | 5.1 | 8.8 | 10.5 | 0.6 | 8.9 | 7.4 | 7.1 | 0.9 | 8.8 | 13.2 | 12.4 | | 8.1 |
|------------------------|-----|------|-----|-----|-----|-----|-----|------|-----|-----|-----|-----|-----|-------|------|------|-----------|---------------------|
| 3A | 3.2 | 2.7 | 3.9 | 9.5 | 2.9 | 2.9 | 7.1 | 19.2 | 9.9 | 4.6 | 1.5 | 2.3 | 1.7 | 6 • 3 | 8.3 | 10.6 | 10.6 | 100.0 |
| | | | | | | | | | | | | | | | | | X | |
| | | | | | | | | | | | | | | | | | X | |
| | | | | | | | | | | | | | | | | | M | |
| | | | | | | | | | | | | | | | | | \bigvee | |
| | | | | | | | | | | | | | | | | | X | |
| 7 41 | | | | | | | | 0. | 0. | 0. | | | | 0. | 0. | | X | 0. |
| 28-40 | | | | | | 0. | .1 | .3 | .1 | 0. | 0. | 0. | | .1 | 9. | .1 | \bigvee | 1.2 |
| 22-27 | 0. | 0. | | | | | e. | .7 | .2 | . 2 | 0. | 0 | | .2 | 1.0 | 1.1 | \bigvee | 3.8 |
| 4-10 11-21 22-27 28-40 | 8. | .2 | .1 | 0. | 0. | -: | 1.7 | 6.5 | 1.5 | 1.0 | .2 | ۳. | 2 | 1.2 | 2.6 | 4.5 | \bigvee | 21.0 |
| 4-10 | 1.6 | 1.6 | 2.0 | 3.1 | 1.6 | 1.7 | 3.8 | 10.2 | 4.0 | 2.7 | 6. | 1.4 | 1.1 | 3.9 | 3.5 | 4.2 | X | 47.3 |
| 1-3 | 1. | 6. | 1.8 | 2.5 | 1.3 | 1.0 | 1.3 | 1.5 | 6. | .7 | ۳. | 5. | 3. | 6. | .7 | ω. | \bigvee | 10.6 16.2 47.3 21.0 |
| SPEED MPH DIR. | z | w ZZ | ž | ENE | . 1 | ESE | SE | SSE | s | SSW | SW | WSW | * | WHW | WW | WWW | CAUM | 10.6 |

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

| ALL | BOATE | 3 obs/day | SOURE (L.B.T.) |
|--|--------------------|-------------|-----------------------------------|
| Grows Landing January 1944 through February 1945 | STATION MANG VEARS | ALL WEATHER | 37°251, 121°061, 1581 LOCATION |
| (7) | 1 | | |

| SPEED MPH DIR. | 1-3 | 4-10 | | 22-27 | 11-21 22-27 28-40 | 047 | | | | | | ж | MEAN WIND SPEED |
|----------------------|------|----------------|------|-------|-------------------|-----|---|-------------------|-------------------|---|---|-------|-----------------------|
| z | 5.0 | 22.0 | 13.1 | 0.7 | 0.1 | | | | | | | 41.0 | 8.9 |
| ZZ | | | | | | | | | | | | | |
| z. | 2.9 | 3.3 | 0.4 | | | | | | | | | 9.9 | 4.5 |
| Z. | | | | | | | | | | | | | |
| | 4.3 | 4.2 | | | | | | | | | | 8.4 | 3 |
| ESE | | | | | | | | | _ | | | | |
| SE | 2.4 | 8.9 | 1.9 | | 0.1 | | | | | | | 11.2 | 7:1 |
| SSE | | | | | | | | | | | | | |
| v | 3.7 | 5.6 | 1.3 | | | | | | | | | 10.6 | 2.8 |
| SSW | | | | | | | | | | | | | |
| SW | 1.7 | 6.0 | 0.7 | 0.1 | | | | | | | | 3.3 | 5.0 |
| WSW | | | | | | | | | | | | | |
| * | 1.7 | 1.7 | 4.0. | 0.1 | | | | | | | | 4.1 | 5 |
| WMW | | | | | | | | | | | | | |
| WW | 1.5 | 2.7 | 5.2 | 2.2 | 0.1 | | | | | | | 12.6 | 15.3 |
| WNW | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| CALM | X | X | X | X | X | X | X | $\langle \rangle$ | $\langle \rangle$ | X | X | 2.2 | 8.0 |
| 0.0 | 23.0 | 23.2 47.3 23.0 | 23.0 | 3.0 | 1.1 | | | | | | | 100.0 | |

DATA FROM NATIONAL CLIMATIC CENTER FEDERAL BUILDING – ASHEVILLE, N.C., 28801

| ALL | Вомти | ALL | POUSS (L.B.T.) |
|-----------------------------|---------------------|-------------|--|
| Daggett, CA FAA 1955 - 1964 | STATION MANS TALBES | ALL WEATHER | 34 52', 116 47', 1,929' LOGATION HEIGHT ABOVE GROUND |
| 23161 | STATION | | |

| whw 0.1 3.2 11.0 8.1 2.0 0.5 10.8 10.8 10.8 NW 0.1 1.9 4.2 2.2 0.2 0.0 0.0 0.0 0.0 0.1 0.6 0.7 0.3 0.0 0.0 0.0 0.0 0.1 0.6 0.7 8.0 1.7 8.0 1.7 8.0 1.8 8 5.1 8.8 13.0 18.8 25.0 |
|---|
| X |
| |

DATA FROM NATIONAL CLIMATIC CENTER FEDERAL BUILDING - ASHEVILLE, N.C., 28801

PERCENTAGE FREQUENCY OF WIND (FROM HOURLY OBSERVATIONS) DIRECTION AND SPEED

| ALL | MONTH | ALL | BOURS (LB.T.) |
|------------------------------------|--------------|-------------|-------------------|
| January 1971 through December 1971 | YEAR | ALL WEATHER | CLASS 122 11 ' |
| Davenport, CA | STATION NAMS | ALL WE | 37°00', 122°11 |

STATION

HEIGHT ABOVE GROUND

| N | SPEED MPH WIR. | 1-3 | 4-7 | 8-15 | 16-25 | > 25 | | | | | | | × | WIND SPEED |
|---|----------------------|-----------|-----------|------|-------|------|---|---|-----------|-----------|---|-----------|-------|---------------|
| 2.0 2.3 0.2 0.2 0.2 0.2 0.3 0.0 | z | | | 0.7 | 0.1 | | | | | | | | 7.6 | 4.7 |
| 3.2 2.2 0.1 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 | m ZZ | | | 0.2 | | | | | | | | | 2.4 | 4.6 |
| 1.3 0.8 0.1 0.0 | Z | | | 0.1 | | | | | | | | | 5.5 | 3.4 |
| 2.2 1.2 0.7 0.0 0.0 1.7 1.4 1.3 0.4 0.1 1.0 1.5 1.0 0.2 0.0 1.0 0.5 0.1 0.1 0.8 0.6 0.1 0.0 0.6 0.5 0.1 0.0 0.9 2.3 3.7 1.7 0.0 2.6 6.0 3.9 0.4 0.9 | ENE | ١ : | | 0.1 | | | | | | | | | 2.2 | 3.5 |
| 1.7 1.2 1.1 0.3 0.0 1.7 1.2 1.1 0.3 0.0 1.7 1.2 1.1 0.3 0.4 0.1 1.4 1.4 0.2 0.1 0.6 0.5 0.1 0.1 0.8 0.6 0.1 0.0 0.9 2.3 3.7 1.7 0.0 0.9 2.3 3.7 1.7 0.0 2.6 6.0 3.9 0.4 2.6 6.0 3.9 0.4 2.7 2.7 2.2 16.2 1.1 | | | 1.2 | 0.7 | 0.0 | 0.0 | | | | | | | 4.0 | 4 |
| 1.7 1.4 1.3 0.4 0.1 1.0 1.5 1.0 0.2 0.0 0.6 0.5 0.1 0.1 0.9 0.5 0.1 0.0 0.9 2.3 3.7 1.7 0.0 1.9 4.2 11.5 12.9 0.9 2.6 6.0 3.9 0.4 2.6 6.0 3.9 0.4 2.7 25.2 16.2 1.1 | ESE | ١. | 2 | 1.1 | 0.3 | 0.0 | | | | | | | 4.3 | 9 |
| 1.0 1.5 1.0 0.2 0.0 3.0 0.1 0.0 0.8 0.0 0.1 0.0 0.1 0.0 0.1 0.0 0.1 0.0 0.1 0.0 0.1 0.0 0.1 0.0 0.1 0.0 0.1 0.1 | SE | 1.7 | 1.4 | 1.3 | 7.0 | 0.1 | | | | | | | 4.8 | 7.0 |
| 1.4 1.4 0.2 0.1 0.6 0.5 0.1 0.0 0.6 0.5 0.1 0.0 0.9 2.3 3.7 1.7 0.0 2.6 6.0 3.9 0.4 2.6 6.0 3.9 0.4 2.5 6.0 3.9 0.4 2.6 6.0 3.9 0.4 2.7 25.2 16.2 1.1 | SSE | 1.0 | 1.5 | 1.0 | 0.2 | 0.0 | | | | | | | 3.6 | 9.9 |
| 0.6 0.5 0.1 0.1 0.1 0.0 1.0 0.0 0.8 0.6 0.1 0.0 0.0 0.0 0.0 0.1 0.0 0.0 0.0 0.1 0.0 0.1 0.0 0.1 0.0 0.1 0.0 0.1 0.0 0.1 0.0 0.0 | S | | 1.4 | 0.2 | 0.1 | | | | | | | | 3.0 | 4.5 |
| 0.8 0.6 0.1 0.0 0.6 0.1 0.0 0.9 1.6 0.3 0.1 1.9 4.2 11.5 12.9 0.9 2.6 6.0 3.9 0.4 0.9 2.5 6.0 3.9 1.1 | SSW | 9.0 | 0.5 | 0.1 | 0.1 | | | | | | | | 1.3 | 17 |
| 0.6 0.5 0.1 0.1 0.0 0.9 1.6 0.3 0.1 0.0 0.9 0.9 0.9 0.9 0.9 0.1 0.0 0.9 0.9 0.9 0.9 0.9 0.9 0.9 0.9 0.9 | SW | 8.0 | 9.0 | 0.1 | 0.0 | | | | | | | | 1.6 | 4.3 |
| 0.9 1.6 0.3 0.1 0.0 2.9 1.6 0.3 0.1 1.0 0.9 2.9 2.8 3.7 25.2 16.2 1.1 | WSW | 9.0 | 0.5 | 0.1 | | | | | | | | | 1.2 | 4.0 |
| 0.9 2.3 3.7 1.7 0.0 1.9 4.2 11.5 12.9 0.9 2.6 6.0 3.9 0.4 0.1 2.5 5.0 16.2 1.1 | Ж | 6.0 | | 0.3 | 0.1 | | | | | | | | 5.9 | 5.2 |
| 1.9 4.2 11.5 12.9 0.9 | WHW | 6.0 | 2,3 | 3.7 | 1.7 | 0.0 | | | | | | | 8.6 | 10.2 |
| 2.6 6.0 3.9 0.4 12.9 3.7 25.4 31.7 25.2 16.2 1.1 | WW | 1.9 | 2 | 11,5 | 12.9 | 6.0 | | | | | | | 31.4 | 14. |
| 25.4 31.7 25.2 16.2 1.1 | MNN | | | 3.9 | | | | | | | | | 12.9 | 9.9 |
| 5 25.4 31.7 25.2 16.2 1.1 | | | | | | | | | | | | | | |
| 25.4 31.7 25.2 16.2 1.1 | CALM | \bigvee | \bigvee | X | X | X | X | X | \bigvee | \bigvee | X | \bigvee | 0.5 | 8.5 |
| | 0.5 | 25.4 | _ | 25.2 | 16.2 | 1.1 | | | | | | | 100.0 | |

-89-

7,458

| ALL | MONTH | ALL | BOURS (L.B.T. | | | |
|--|--------------|-------------|---------------|-------------------------|----------|---------------------|
| Desert Center California AAF June 1943 thru March 1944 | STATION HAME | ALL WEATHER | CLASS | 330 451, 1150 201, 5411 | LOCATION | HEIGHT ABOVE GROUND |

| 69948 | | | | | | | | | | | | • | MEAN |
|-------|-----------|-----------|-------|-------|-------------|-----------|-----------|---|---|---|---|-------|-------|
| DIR. | 1-3 | 4-12 | 13-24 | 25-31 | 25-31 32-46 | 247 | | | | | | ŧ | SPEED |
| z | 0.4 | 1.5 | 0.1 | | | | | | | | | 5.0 | p. 0 |
| Z.Z. | 4.0 | 1.5 | 0.2 | | 0.0 | | | | | | | 2.1 | 6.7 |
| Z. | | 0.1 | 0.0 | 0.0 | 0.0 | | | | | | | 2.8 | 9 |
| SNS. | 6.0 | 3.1 | 0.3 | 0.0 | | | | | | | | 4.3 | 9.9 |
| | 6.0 | 4.5 | 0.3 | | 0,1 | | | | | | | 5.7 | 6.7 |
| ESE | 0.6 | 4.5 | 6.0 | 0.0 | | | | | | | | 6.1 | 8.2 |
| SE | 9.0 | 2.4 | 0.3 | 0.0 | | | | | | | | 3.4 | 6.5 |
| \$5E | 0.5 | 2 | 0.3 | | | | | | | | | 2.7 | 7.2 |
| 'n | 0.7 | | 0.2 | 0.0 | | | | | | | | 2.6 | 0.9 |
| SSW | 0.5 | 0.0 | 9.0 | 0 | | | | | | | | 3.3 | 6.1 |
| S.W | 0.5 | 1.7 | 0.5 | 0.0 | | | | | | | | 2.7 | 7.6 |
| wsw | 1.2 | 2.1 | 2.5 | 0.1 | | | | | | | | 11.8 | 8.0 |
| > | 2.0 | 18.7 | 6.0 | | | | | | | | | 21.5 | 9 |
| WHW | 1.5 | 12.3 | 7.0 | 0.0 | | | | | | | | 14.2 | 6.9 |
| N.W. | 9.0 | 5.5 | - 8 | 0.1 | | | | | | | | 8.0 | 9.7 |
| WNW | 0.5 | 3.3 | 1.5 | 0.0 | | | | | | | | 5.4 | 9.6 |
| | | | | | | | | | | | | 1.4 | |
| CALM | X | X | X | X | X | \bigvee | \bigvee | X | X | X | X | | 7.5 |
| - | 2 01 1/ 1 | 0 11 8 17 | 0 11 | 17 0 | - | | | | | | | 100.0 | |

DATA FROM NATIONAL CLIMATIC CENTER FEDERAL BUILDING - ASHEVILLE, N.C., 28801

TOTAL NUMBER OF OBSERVATIONS 6,669

-90-

| ALL BORTH | ALL MOUSE (L.E.T.) | | | WIND SPEED | Н | | _ | | 4.8 | 4 | _ | | 4.7 | 4 | _ | \dashv | 5,3 | \dashv | \dashv | 11.9 | 10.6 | + |
|--------------------------|--|----------------------------|------|----------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|----------|-----|----------|----------|------|-----------|---|
| | OM. | | | × | 5.6 | 4.1 | 3.8 | 2.8 | 2.9 | 5.6 | 8.5 | 4.4 | 1.9 | 1.3 | 1.5 | 1.1 | 1.8 | 8.6 | 34.9 | 11.0 | 0 | |
| | | | | | | | | | | | | | | | | | | | | | X | |
| 13/4 | | 1 | | | | | | | | | | | | | | | | | | | λ | 1 |
| ADELL | | | | | | | | | | | | | | | | | | | | | \rangle | 1 |
| 2 curu | | | | 50,1 | | | | | | | | | | | | | | | | | | |
| May 19/3 thru April 19/4 | | 0 2 | | 40.1 | | | | 0.0 | | 0.0 | 0.0 | | | | | | | | 0,3 | 0.0 | \rangle | |
| M | weather cLAss 120 ⁰ 49 ¹ | POT HEIGHT ABOVE GROUND | | 29.6 | 0.1 | 0.0 | | 0.0 | 0.0 | 0.1 | 0.3 | 0.1 | 0.0 | 0.0 | 0.0 | | 0.0 | 0.3 | 5.6 | 9.0 | \rangle | 1 |
| | ALL WEATHER CLASS 35°13', 120°49' | PECHT AB | | 21.1 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.4 | 0.3 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.5 | 7.3 | 1.4 | | |
| | 3501 | 33 feet | | 15.1 | 0.5 | 0.2 | 0.2 | 0.3 | 0.1 | 9.0 | 0.9 | 0.2 | 0.1 | 0.0 | 0.2 | 0.0 | 0.1 | 1.2 | 8.9 | 2.6 | | |
| MAM E | | | | 9.6 | 1.8 | 6.0 | 0.8 | 0.5 | 0.3 | 1.1 | 2.2 | 0.6 | 0.2 | 0.1 | 0.1 | 0.1 | 0.2 | 2.3 | 7.0 | 2.9 | | |
| DYOP STATION | | | | 5.1 | 2.5 | 2.3 | 1.8 | 1.0 | 1.2 | 2.3 | 3.8 | 2.5 | 1.0 | 9.0 | 0.5 | 0.5 | 0.7 | 3.5 | 4.7 | 2.7 | | |
| Diablo Canyon CA | 1 1 | l | | 1.5 | 0.7 | 0.9 | 1.0 | 1.0 | 1.2 | 1.1 | 6.0 | 0.8 | 9.0 | 9.0 | 9.0 | 0.4 | 0.7 | 0.9 | 1.1 | 6.0 | | |
| Dia | | | Mean | SPEED MPH DIR. | z | NNE | ž | ENE | , 4 | ESE | SE | SSE | S | SSW | S.W. | WSW | > | WWW | WW | MNN | 1147 | |

| MONTH | ALL | HOURS (L.S.T.) | | | | | WIND | 8.5 | 8.8 | 8.5 | 7.5 | 7.2 | 8.2 | 8 | 8.3 | 4.9 | 4.6 | 5.6 | 4.9 | 5,3 | 7.9 | 14.3 | 12.1 | 10.5 | | |
|--------------|---------|----------------|---------|----------|---------------------|------|----------------------|-----|-----|-----|-----|-----|-----|------|-----|-----|-----|-----|-----|-----|-----|------|------|-----------|-----------|--------|
| | | 04 | | | | | × | 5.3 | 3.8 | 2.8 | 2.0 | 1.6 | 4.3 | 10.7 | 6.4 | 2.3 | 1.7 | 1.5 | 1.5 | 2.5 | 6.9 | 34.6 | 13.3 | 0.7 | 0.00 | |
| | | | | | | | | | | | | | | | | | | | | | | | | \bigvee | | |
| | 1 | | | | | | | | | | | | | | | | | | | | | | | \bigvee | | |
| TEARS | | | | | | | | | | | | | | | | | | | | | | | | M | | |
| 1 | | | | | | | 50.1 | | | | | | | 0.0 | | | | | | | | 0.0 | | X | 0.0 | |
| | | | | | 0,7 | | 40.1 | | | | 0.0 | 0.0 | | 0.1 | 0.1 | | | | | | | 0.0 | 0.0 | X | 0.2 | |
| | WEATHER | , 120°49° | OCATION | 249 feet | HEIGHT ABOVE GROUND | | 29.6 | 0.0 | 0.0 | 0.0 | | 0.1 | 0.1 | 0.3 | 0.3 | 0.0 | | 0.0 | | 0.0 | 0.1 | 3.0 | 1.0 | \bigvee | 4.8 | 4 |
| | ALL WE | 13', 13 | LOC | 249 | HEIGHT A | | 21.1 | 0.2 | 0.1 | 0.1 | 0.0 | 0.0 | 0.3 | 0.4 | 0.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.2 | 7.4 | 1.4 | M | 10.7 | Compo |
| | | 350131 | | | | | 15.1 | 1.1 | 0.8 | 0.5 | 0,3 | 0.1 | 0.7 | 1.0 | 0.2 | 0.1 | 0.1 | 0.1 | 0.1 | 0.2 | 0.9 | 6.6 | 3.6 | \bigvee | 19.8 | 00+204 |
| HAME | | | | | | | 9.6 | 1.4 | 1.1 | 8.0 | 0.5 | 0.2 | 6.0 | 2.6 | 9.0 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 1.8 | 7.9 | 3.7 | \bigvee | | 100 |
| STATIO | | | | | | | 5.1 | 1.9 | 1.3 | 1.0 | 6.0 | 8.0 | 1.6 | 4.8 | 2.1 | 1.1 | 0.7 | 0.7 | 0.5 | 1.5 | 3.0 | 5.0 | 2.9 | X | 29.5 22.5 | 100 |
| STATION NAME | | | 1 | | ı | | 1.5 | 9.0 | 0.4 | 0.3 | 0.3 | 0.4 | 0.8 | 1.4 | 1.1 | 6.0 | 0.7 | 0.5 | 0.7 | 6.0 | 6.0 | 1.2 | 0.7 | \bigvee | 11.7 | |
| | | | | | | Mean | SPEED MPH DIR. | z | NNE | Z | ENE | | ESE | SE | SSE | s | SSW | SW | WSW | * | WHW | WW | MNW | CALM | 0.7 | |
| 8747104 | | | | | ; | Mea | N M | Ĺ | Ž | _ | 4 | | w | ຶ | 83 | | 28 | S | * | | · A | z | Ź | 5 | 0 | |

| ALL | Beats | ALL | BOOMS (L.R.T.) | | | | |
|--------------------------------|--------------|-------------|----------------|---|----------|-----|---------------------|
| Dominguez 1/1/56 - 12/31/72 | Station hand | ALL WEATHER | CLABB | 35° 50, 118° 14', 30' 21718 S. Alameda Avenue | LOCATION | 50! | HEIGHT ABOVE GROUND |
| DOM | 87a7tes | | | | | | |

| From South Coast Air Quality Management District 100.00 | from South Coast Air Quality Management District Blacor Testar Avenue Blacor CA 91731 | MPH ore. | | | | | | | * | | | | yt. | WIND |
|--|--|-------------|-------------|---------|--------|--------|---------|-------|------|-----------|-------------|----------|-------|------|
| 5.6 4.9 4.9 4.9 4.9 4.9 4.9 4.9 4.9 4.9 4.9 4.9 4.9 5.2 | from South Coast Air Quality Management District Flow South Coast Air Quality Management District Management Distri | z | | | | | | | | | | | 9.8 | 1.2 |
| from South Coast Air Quality Management District 100.00 | from South Coast Air Quality Management District Flow South Coast Air Quality Management District Flow South Coast Air Quality Management District Flow South Coast Air Quality Management District Flow South Coast Air Quality Management District Flow South Coast Air Quality Management District Flow South Coast Air Quality Management District Flow South Coast Air Quality Management District Flow South Coast Air Quality Management District Flow South Coast Air Quality Management District Flow South Coast Air Quality Management District Flow South Coast Air Quality Management District Flow South Coast Air Quality Management District Flow South Coast Air Quality Management District Flow South Coast Air Quality Management District Flow South Coast Air Quality Management District Flow South Coast Air Quality Management District Flow South Coast Air Quality Management District Flow South Coast Air Quality Management District Flow South Coast Air Quality Management District Managem | ZXZ | | | | | | | | | | | 5.6 | 7.4 |
| 1.8 | from South Coast Air Quality Management District Flow South Coast Air Quality Management District Flow South Coast Air Quality Management District Flow South Coast Air Quality Management District Flow South Coast Air Quality Management District Flow South Coast Air Quality Management District Flow South Coast Air Quality Management District Flow South Coast Air Quality Management District Flow South Coast Air Quality Management District Flow South Coast Air Quality Management District Flow South Coast Air Quality Management District Flow South Coast Air Quality Management District Flow South Coast Air Quality Management District Flow South Coast Air Quality Management District Flow South Coast Air Quality Management District Flow South Coast Air Quality Management District Flow South Coast Air Quality Management District Flow South Coast Air Quality Management District Flow South Coast Air Quality Management District Flow South Coast Air Quality Management District Managem | ž | | | | | | | | | | | 6.4 | 3.5 |
| from South Coast Air Quality Management District 100.00 | from South Coast Air Quality Management District 10.00 10.00 10.00 10.00 10.00 | ENE | | | | | | | | | | | 5.4 | 3.6 |
| from South Coast Air Quality Management District 100.00 | from South Coast Air Quality Management District El Monte, CA 91731 | - | | | | | | | | | | | 4.9 | 2, |
| From South Coast Air Quality Management District 100.00 | from South Coast Air Quality Management District 100.01 | 353 | | | | | | | | | | | 4.7 | 4.5 |
| 6.8 1.8 | from South Coast Air Quality Management District 100.0 100.0 100.0 | SE | | | | | | | | | | | 5.7 | 5.3 |
| 2.2 1.8 2.6 12. | from South Coast Air Quality Management District 10.00 10.00 10.00 10.00 10.00 | 558 | | | | | | | | | | | 6.8 | 0.9 |
| 1.8 12.6 1 | 1.8 1.6 | ~ | | | | | | | | | | | 5.5 | 5.8 |
| from South Coast Air Quality Management District From Human of Observation 97,940 | from South Coast Air Quality Management District From South Coast Air Quality Management District From South Coast Avenue El Monte, CA 91731 | SSW | | | | | | | | | | | 8 | 5.1 |
| from South Coast Air Quality Management District Form Nummer of Ostsuck Avenue | from South Coast Air Quality Management District Flow South Coast Air Quality Management District El Monte, CA 91731 | SW | | | | | | | | | | | 2.2 | 7 |
| from South Coast Air Quality Management District 100.00 | from South Coast Air Quality Management District BI Monte, CA 91731 | WSW | | | | | | | | | | | 12.6 | Σ (|
| from South Coast Air Quality Management District From Human of Ossiavanows 97,940 | from South Coast Air Quality Management District 100.00 | W | | | | | | | | | | | 17.9 | 5 |
| from South Coast Air Quality Management District From Human of Observation 97,940 | from South Coast Air Quality Management District From South Coast Avenue El Monte, CA 91731 | WHW | | | | | | | | | | | 4.9 | 7 |
| from South Coast Air Quality Management District 100.00 | from South Coast Air Quality Management District 9420 Telstar Avenue El Monte, CA 91731 | MM | | | | | | | | | | | 5.9 | 4,6 |
| from South Coast Air Quality Management District TOTA NUMBER OF OSSENTATIONS 97,940 | from South Coast Air Quality Management District TOTA NUMBER OF 05181VATIONS 97,940 El Monte, CA 91731 | MNM | | | | | | | | | | | 3.6 | 2.6 |
| from South Coast Air Quality Management District rotal Number of Osservations 97,940 | from South Coast Air Quality Management District rota Number of Osservation 97,940 El Monte, CA 91731 | | | | | | | | | | | | | |
| from South Coast Air Quality Management District Tota Number of Osservations 97,940 | from South Coast Air Quality Management District 100.00 PURCHAR Avenue El Monte, CA 91731 | CALM | X | X | X | X | X | X | X | X | X | X | 1 | |
| from South Coast Air Quality Management District 0420 Telstar Avenue | from South Coast Air Quality Management District 9420 Telstar Avenue El Monte, CA 91731 | | | | | | | | | | | | 100.0 | |
| | | Data f | om South Co | ast Air | Qualit | ty Man | agement | Distr | rict | TOTAL NUM | BER OF OBSE | RYATIONS | 97,94 | |

Note: These data are available on an hourly basis.

-93-

| ALL | BORTA | ALL | MOURS (L.B.T. | | | | |
|---|--------------------|-------------|---------------|---------------------------|----------|---------|--------------------|
| Donner Summit California 1934 thru 1938 | STATION MAKE YEARS | ALL WEATHER | CLASS | 39° 19', 120° 20', 7,195' | LOCATION | 30 feet | 0.2.00 M → 1.0.3.1 |

STATION

| MPH DIR. | 4-15 | 16-31 | 16-31 32-47 | 747 | | | | | | | | × | MEAN WIND SPEED |
|-------------|------|-------|-------------|------|-----------|-----------|---|---|---|---|---|-------|-----------------------|
| z | 4.0 | 0.0 | 0.0 | | | | | | | | | 0.4 | |
| Z | 0.1 | 0 | | | | | | | | | | 0.1 | |
| Z. | 2.7 | 7.0 | 0.1 | 0.0 | | | | | | | | 3.2 | |
| a N | 1.4 | 0.7 | 0.2 | 0.0 | | | | | | | | 2.4 | |
| E . | 14.5 | 4.5 | 0.7 | 0.1 | | | | | | | | 19.9 | |
| ESE | 2.3 | 1.2 | 0,1 | 0.0 | | | | | | | | 3.6 | |
| SE | 1.5 | 0.2 | 0.0 | | | | | | | | | 1.7 | |
| SSE | 1.0 | 0.0 | | 0.0 | | | | | | | | 0.1 | |
| s | 0.3 | 0.0 | | | | | | | | | | 0.3 | |
| SSW | 0.3 | 0.1 | 0.0 | | | | | | | | | 0.5 | |
| »S | 4.4 | 2.7 | 9.0 | 0.0 | | | | | | | | 7.7 | |
| WSW | 5.8 | 7.9 | 1.7 | .0.3 | | | | | | | | 15.8 | |
| * | 17,4 | 16.0 | 2.2 | | | | | | | | | 35.7 | |
| WWW | 1.3 | 0.7 | 0.0 | | | | | | | | | 2.0 | |
| WW | 1.2 | 0.1 | 0.0 | | | | | | | | | 1.3 | |
| MNM | 0.1 | 0.0 | | | | | | | | | | 0.1 | |
| | | | | | | | | | | | | | |
| CALM | X | X | X | X | \bigvee | \bigvee | X | X | X | X | X | , 5.1 | |
| 5.1 | 53.8 | 34.8 | 5.7 | 9.0 | | | | | | | | 100.0 | |

DATA FROM NATIONAL CLIMATIC CENTER FEDERAL BUILDING - ASHEVILLE, N.C., 28801

TOTAL NUMBER OF OBSERVATIONS 43,763

| ALL | ALL | mount (L.S.T.) | | | | |
|--------------|-------------|----------------|---|----------|-----|---------------------|
| 5/53 - 12/74 | ALL WEATHER | CLASS | 220 57', 1180 10', 120' 7601 E. Imperial Hwy. | LOCATION | 30, | HEIGHT ABOVE GROUND |
| Downey | | 1 | | ı | | l |
| RLA 022W | | | | | | |

| | 8.7 2.8 | 2 | | + | 6.2 3.1 | + | 8.7 | + | - | + | 18.4 5.2 | + | + | 2.3 6.0 | 7.8 | 1.7 4.0 | _ | 100.00 | 160,585 |
|-----|---------|------|---|-----|---------|-----|-----|------|---|-----|----------|-----|---|---------|-----|---------|-------------------|--------|---|
| | | | | | | | | | | | | | 1 | | | | X | 1 | |
| | | | | | | - | | | | | | | | | | | $\langle \rangle$ | | TOTAL NUMBER OF OBSERVATIONS |
| | | | | | | | | | | | | | | | | | $\langle \rangle$ | | OTAL NUMBE |
| | | | | | | | | | | | | | | | | | X | | |
| | | | | | | | | | | | | | | | | | X | | South Coast Air Quality Management District 0420 Telstar Avenue |
| | | | | | | | | | | | | | | | | | X | | agemen |
| | | | | | | | | | | | | | | | | | X | | ty Man |
| | | | | | | | | | | | | | | | | | X | | r Quali |
| | | | | | | | | | | | | | | | | | X | | ast Ain |
| | | | | | | | | | | | | | | | | | X | | South Coast Air Qua |
| | | | | | | | | | | | | | | | | | X | | from So |
| MPH | z | N.N. | Z | ENE | | 252 | SE | \$5E | " | SSW | SW | WSW | * | WHW | MM | NNW | CALLA | | Data f |

These data are available on an hourly basis.

Noto.

| ALL | MONTH | ALL | HOURS (L.S.T.) | | | | |
|------------------------------|-------------|-------------|----------------|------------------------|----------|-----|---------------------|
| EDWARDS AFB CALIFORNIA 62-72 | STATON MAME | ALL WEATHER | CLASS | 34055', 117054', 2316' | LOCATION | 13, | HEIGHT ABOVE GROUND |

23114

| MEAN WIND SPEED | 4.5 | 5.2 | 5.9 | 6.8 | 9.9 | 4.6 | 4.5 | 4.3 | 4.7 | 6.5 | 9.3 | 11.0 | 10.5 | 10.5 | 7.7 | 5.0 | | 7.2 |
|-------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|------|-----|-----------|-------|
| × | 1.8 | 2.9 | 2,4 | 2.0 | 2.3 | 6. | . 7 | 9. | 2.2 | 6.3 | 16.6 | 17.3 | 13,3 | 7.5 | 3.0 | 6. | 19.3 | 100.0 |
| N 38 | | | | | | | | | | | | | | | | | X | |
| 48 - 55 | | | | | | | | | | | | | | | | | X | |
| 41 - 47 | | | | | | | | | | | | | | | | | \bigvee | |
| 34 - 40 | | | | | | | | | | | 0. | | 0. | 0. | | | X | 0. |
| 28 - 33 | | | 0. | 0. | | | | | | 0. | 0. | 0. | 0. | .1 | 0. | 0. | \bigvee | .2 |
| 22 - 27 | 0. | 0. | 0. | 0. | 0. | 0. | | 0. | 0. | 0. | .3 | . 4 | . 4 | . 4 | .1 | | \bigvee | 1.7 |
| 17 - 21 | 0. | 0. | , 1 | 0. | , 1 | 0. | 0. | 0. | 0. | .1 | 1,4 | 2.2 | 1.5 | 1.1 | .3 | 0. | X | 6.8 |
| 11 - 16 | .1 | 7. | .2 | .3 | .3 | 0. | 0. | 0 | .1 | . 4 | 3.7 | 6.2 | 4.3 | 1.8 | .5 | .1 | X | 18.2 |
| 7 - 10 | .2 | 4. | . 4 | , 5 | .5 | .1 | .1 | 7 | , 4 | 2.0 | 5.3 | 4.6 | 3.1 | 1.0 | . 4 | .1 | X | 19.2 |
| 4.6 | .7 | 1.3 | 6. | 9. | 8. | 4. | . 3 | ۳. | 1.0 | 2.7 | 4.3 | 2.8 | 2.4 | 1.8 | 6. | .3 | X | 21.5 |
| 1.3 | 8 | 1.0 | 8 | .5 | 9. | . 4 | . 3 | ε, | 8 | 1.0 | 1,4 | 1,2 | 1.5 | 1.3 | 6. | . 4 | X | 13.1 |
| SPEED (KNTS) DIR. | z | ZZ | ž | ENE | 3 | ESE | SE | SSE | S | SSW | »s | wsw | * | WHW | N.V. | MNN | CAUA | 19.3 |

DATA FROM NATIONAL CLIMATIC CENTER FEDERAL BUILDING - ASHEVILLE, N.C., 28801

TOTAL NUMBER OF OBSERVATIONS 86311

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED

(FROM HOURLY OBSERVATIONS) 45-60 WEATHER LOCATION ALL 32049', 115040', -43' EL CENTRO CALIFORNIA NAAS

23199

BOUSS (L.S.T.)

ALL ALL

HEIGHT ABOVE GROUND

| MEAN WIND SPEED | 7.8 | 9.9 | 5.2 | | 5.3 | 6.4 | 9.9 | | 5.4 | 5.2 | 7.0 | 12.6 | r | 8.0 | 6.3 | 7.8 | | | 7.6 |
|-------------------------|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|-----|-----|-----|-------|-----------|-------|
| 38 | 4.5 | 2.3 | 2.9 | 1.8 | 4.1 | 3.7 | 8.1 | 4.4 | 4.8 | 2.5 | 5.9 | 11.9 | 19.6 | 8.6 | 6.1 | 3.2 | | 5.7 | 100.0 |
| % A1 | | | | | | | | | | | | | | | | | | X | |
| 48 - 55 | • | | | | | | | | | | | | | | 0. | | | \bigvee | 0 |
| 41 - 47 | | | | | | | | | | | | 0. | 0. | | 0. | | | \bigvee | o. |
| 34 - 40 | 0. | | | | | | | | | | 0. | 0. | 0. | 0. | 0. | | | X | .1 |
| 28 - 33 | 0. | 0. | 0. | | 0. | | 0. | 0. | 0. | | 0. | er. | . 2 | 0. | 0. | 0. | | X | 9. |
| 22 - 27 | .1 | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | .1 | 1.2 | 1.0 | 7. | 0. | .1 | | X | 2.8 |
| 17 - 21 | е. | .1 | 0. | 0. | 0. | 0. | ٦. | 0. | 0. | 0. | .3 | 2.1 | 2.1 | . 4 | | .2 | | X | 5.7 |
| 11 - 16 | 9. | .2 | .1 | .1 | -1 | . 4 | ω. | . 4 | . 2 | .1 | .5 | 2.7 | 3.6 | 1.2 | .5 | .5 | | X | 12.2 |
| 7 - 10 | 1.0 | .5 | 9. | 4. | 1.0 | 1.2 | 2.7 | 1.5 | 1.2 | .5 | 1.2 | 2.5 | 5.8 | 3.0 | 1.7 | ∞. | | X | 25.7 |
| 9.4 | 1.4 | ω. | 1.2 | ω. | 1.8 | 1.4 | 2.9 | 1.6 | 2.0 | 1.1 | 2.1 | 2.1 | 4.7 | 2.7 | 2.3 | 1.0 | | X | 30.0 |
| 1.3 | 1.0 | 9. | 6. | .5 | 1.1 | .7 | 1.5 | 80. | 1.3 | ω. | 1.5 | 1.0 | 2.1 | 1.1 | 1.4 | 9. | | X | 17.1 |
| SPEED (KNTS) DIR. | z | N.N. | 37 | ENE | I I | ESE | SE | SSE | S | SSW | »S | WSW | * | WHW | ×× | NNW | VARBL | CALM | 5.7. |
| | | | - | | - | | - | | - | | | | | | | | | | |

FEDERAL BUILDING - ASHEVILLE, N.C., 28801 DATA FROM NATIONAL CLIMATIC CENTER

121517

TOTAL NUMBER OF OBSERVATIONS

-97-

BOURD (LAT.) ALL ALL Lexington-Gallatin Rd. 1/1/55 - 12/31/65 825 N. HEIGHT ABOVE GROUND ALL WEATHER LOCATION 30 280 02 1180 05. 340 El Monte WNR 049W

| WIND | 5.8 | 3.9 | 3.9 | 3.6 | 3.7 | 5.1 | 3.0 | 5 | 4.8 | 0.9 | 6.5 | 5.9 | 4.4 | 4.3 | 3.6 | 3.6 | | 4.7 |
|----------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|-----|-----|-----|-----|-----|-------|-------|
| × | 7.0 | 6.2 | 6.3 | 9.4 | 4.8 | 5.0 | 5.3 | 2.5 | 8.2 | 18.1 | 15.3 | 6.7 | 4.9 | 2.3 | 2.7 | 3.2 | 1 | 100.1 |
| | | | | | | | | | | | | | | | | | X | |
| | | | | | | | | | | | | | | | | | X | |
| | | | | | | | | | | | | | | | | | X | |
| | | | | | | | | | | | | | | | | | X | |
| | | | | | | | | | | | | | | | | | X | |
| | | L | | | | | | | | | | | | | | | X | |
| | | | | | | | | | | | | | | | | | X | |
| | | | | | | | | | | | | | | • | | | X | |
| | | | | | | | | | | | | | | | | | X | |
| | | | | | | | | | | | | | | | | | X | |
| | | | | | | | | | | | | | | | - | | X | |
| SPEED MPH DIR. | z | NX. | ¥ | SKE | - | ESE | SE | SSE | | SSW | SW | WSW | * | WHW | NA. | NNN | CALIA | |

TOTAL NUMBER OF OBSERVATIONS South Coast Air Quality Management District 9420 Telstar Avenue El Monte, CA 91731 Data from

Note: These data are available on an hourly basis.

69,678

PERCENTAGE FREQUENCY OF WIND

| | ALL | Breet | ALL | BOURS (L.S. | | |
|---------------------------|-------------------------------|--------------|-------------|-----------------------|----------|---------------|
| FROM HOURLY OBSERVATIONS) | El Torro, CA MCAS 1945 - 1972 | STATION MAME | ALL WEATHER | 33°40', 117°44', 383' | LOCATION | MEIGHT ABOUND |
| | 93101 | 8747184 | | | | |

| SPEED | 1 | | | | | | | 1 1 | | | | | MEAN |
|---------------|------|------|-----------|-------|-------|-------------------|-----|-------|---|---|---|-------|---------|
| knots DIR. | 1-3 | 9-17 | 7-10 | 11-16 | 17-21 | 17-21 22-27 28-33 | | 34-40 | | | | se. | SPEED |
| z | | 0.7 | 0.1 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | | | | 2.2 | 4.0 |
| NNE | 0.8 | 0.5 | 0.2 | 0.2 | 0.1 | 0.0 | 0.0 | 0.0 | | | | 1.9 | 6.2 |
| Z | 2.0 | 1.7 | 7.0 | 0.5 | 0,3 | 0,1 | 0.0 | 0.0 | | | | 5.1 | 6.3 |
| ava ava | | 2.0 | 0.4 | 0.2 | 0.1 | 0.0 | 0.0 | 0.0 | | | | 4.7 | 4.8 |
| _ | 4.1 | 7.7 | 1.0 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | | | | 9.6 | 7.5 |
| ESE | 2.1 | 2.4 | 0.7 | 0,1 | 0.0 | 0.0 | | | | | | 5.4 | 4.4 |
| SE | 5.6 | 8 | 1.0 | 0.2 | 0.0 | 0.0 | | | | | | 6.5 | 9.4 |
| SSE | 1.7 | 2.1 | 1.1 | 0.2 | 0.0 | 0.0 | 0.0 | | | | | 5.2 | 5.3 |
| S | 2,1 | 2.5 | 1.6 | 0.3 | 0.0 | 0.0 | | | | | | 9.9 | 5.4 |
| SSW | 6.0 | 1,1 | | 0.1 | 0.0 | 0.0 | | | | | | 2.8 | η. « |
| SW | 1.0 | 1.1 | 0.7 | 0,1 | 0.0 | 0.0 | | | | | | 3.0 | 5.1 |
| WSW | 1.0 | 1.5 | 7.4 | 0.4 | 0.0 | 0.0 | | | | | | 4.3 | 6.3 |
| * | 3.1 | 6.1 | 6.5 | 6.0 | 0,1 | 0.0 | 0.0 | | | | | 16.6 | 6.3 |
| WHW | 2.1 | 3.7 | 3.4 | 0.3 | 0.0 | 0.0 | | | | | | 9.4 | - |
| WW | 1.9 | 2.1 | 1.0 | 0.1 | 0.0 | 0.0 | | | | | | 5.0 | 4.7 |
| MNW | 6.0 | 0.8 | 0.2 | 0.0 | 0.0 | 0.0 | | | | | | 1.9 | |
| | | | | | | | | | | | | | |
| CALM | X | X | \bigvee | X | X | X | X | X | X | X | X | 6.6, | |
| 0 | 7 00 | 35.7 | 20.4 | 2 7 | 0 7 | C | 0.0 | | | | | 0 001 | 4.8 |

DATA FROM NATIONAL CLIMATIC CENTER FEDERAL BUILDING - ASHEVILLE, N.C., 28801

TOTAL NUMBER OF OBSERVATIONS

236,944

PERCENTAGE FREQUENCY OF WIND (FROM HOURLY OBSERVATIONS) DIRECTION AND SPEED

ALL BOOMS (L.R.T.) MEAN WIND 4.3 TOTAL NUMBER OF OBSERVATIONS 131,556 2.3 10001 901 288 12/12/57 - 1/3/73 5001 Balboa Avenue South Coast Air Quality Management District 9420 Telstar Avenue El Monte, CA 91731 HEIGHT ABOVE GROUND ALL WEATHER LOCATION CLASS 40 770 118° 30', 340 101, Encino Data from -MPH SE N. E ESE SSW WSW WHA MNM ž SSE S K z 22 Š È 20 ¥ STATION ENC 086W

Note: These data are available on an hourly basis.

PERCENTAGE FREQUENCY OF WIND (FROM HOURLY OBSERVATIONS) DIRECTION AND SPEED

| | ALL | MOSTA | ALL | Beuss (L.s.T.) | |
|----------------------------|---------------------------------|--------------|-------------|---------------------------------|---------------------|
| (inch inches observations) | January 1931 thru December 1936 | 88723 | ATHER | CLASS 0 521, 301 LOGATION | HEIGHT ABOVE GROUND |
| Tayour Wour | Estero, California | STATION NAME | ALL WEATHER | 35° 241, 120° 521, 301 | HEIGHT AI |

BTATIOS

| MFR. | 1-3 | 4-15 | 16-31 | 16-31 32-47 | 747 | | | | | | | Ж | MEAN WIND SPEED |
|------|-----------|------|-------|-------------|-----|---|---|---|---|---|---|-------|-----------------------|
| z | 8.0 | 1.2 | 0.1 | | | | | | | | | 2.2 | 6.1 |
| ZZ | 0.0 | 0.0 | | | | | | | | | | 0.0 | 5.0 |
| 2 | 10.1 | 11.3 | 1.6 | 0.0 | | | | | | | | 23.0 | 6.1 |
| BNE | | 0.0 | | | | | | | | | | 0.0 | 9. |
| พ | 3.9 | 2.8 | 0.5 | | | | | | | | | 9.9 | 4 |
| ESE | 0.0 | 0.0 | | | | | | | | | | 0.0 | 5 |
| SE | 3.1 | 2.8 | 0.5 | | | | | | | | | 6.3 | ic. |
| SSE | 0.0 | 0.0 | 0.0 | | | | | | | | | 0.0 | 8.0 |
| s | 1.6 | 2.0 | 0.3 | 0.0 | | | | | | | | 3.9 | 5 |
| SSW | | | | | | | | | | | | | |
| SW. | 3.5 | 3.9 | 0.2 | 0.0 | | | | | | | | 7.7 | 4.6 |
| WSW | | | | | | | | | | | | | |
| * | 6.6 | 6.2 | 0.7 | 0.0 | | | | | | | | 16.9 | 4.5 |
| WNW | | 0.0 | | | | | | | | | | 0.0 | χ. |
| WW | 0.4 | 8.9 | 2.0 | 0.0 | | | | | | | | 12.8 | ×. |
| MNN | | 0.0 | | | | | | | | | | 0.0 | 10.0 |
| | | | | | | | | | | | | | |
| CAUA | \bigvee | X | X | X | X | X | X | X | X | X | X | 20.2 | 4.6 |
| 000 | 37.0 | 37.0 | 5.7 | 0.1 | | | | | | | | 100.0 | |

DATA FROM NATIONAL CLIMATIC CENTER FEDERAL BUILDING - ASMEVILLE, N.C., 28801

| ALL | ALL | HOURS (L.B.T | | |
|---|-------------|---|----------|---------------------|
| Eureka CA, Humboldt Bay P.P. Jan 1966 thru Dec 1967 | ALL WEATHER | 40 ⁰ 48', 120 ¹ 12' | LOGATION | HEIGHT ABOVE GROUND |

87A710S

| WEAN WIND SPEED | 12.7 | 9.6 | 7.3 | 6.2 | 5.5 | 6.9 | 13.3 | 15.7 | 11.3 | 10.1 | 10.2 | 10.3 | 6.1 | 6.2 | 7.3 | 6.6 | 9.6 | |
|-----------------------|------|-----|-----|-----|-----|-----|------|------|------|------|------|------|-----|-----|-----|-----|-----------|-------|
| 24 | 18.4 | 6.9 | 3.5 | 2,3 | 2.5 | 2.4 | 3.9 | 6.7 | 6.7 | 6.5 | 7.2 | 5.1 | 4.2 | 3.1 | 5.0 | 9.6 | 5.9 | 100.0 |
| | | | | | | | | | | | | | | | | | X | |
| | | | | | | | | | | | | | | | | | X | |
| | | | | | | | | | | | | | | | | | \bigvee | |
| | | | | | | | | | | | | | | | | | X | |
| | | | | | | | | | | | | | | | | | X | |
| > 25 | 1.1 | 0.1 | | | | 0.0 | 0.5 | 0.9 | 0.2 | 0.2 | 0.4 | 0.1 | 0.0 | 0.0 | 0.1 | 0.1 | X | 3.8 |
| 19-24 | 2.2 | 0.3 | 0.0 | 0.0 | | 0.0 | 0.5 | 1.4 | 9.0 | 0.4 | 0.5 | 0.2 | 0.1 | 0.1 | 0.1 | 0.5 | X | 6.9 |
| 15-18 | 4.7 | 1.2 | 0.2 | 0.1 | 0.0 | 0.1 | 6.0 | 2.1 | 1.9 | 1.0 | 0.9 | 0.5 | 0.2 | 0.1 | 0.3 | 1.8 | X | 15.9 |
| 8-12 | 6.1 | 2.7 | 1.2 | 0.5 | 0.5 | 0.7 | 0.8 | 1.0 | 2.1 | 2.3 | 2.1 | 1.3 | 0.9 | 0.7 | 1.5 | 3.5 | X | 27.8 |
| 4-7 | 3.7 | 2.1 | 1.6 | 1,3 | 1.4 | 1.3 | 1.0 | 1.0 | 1.5 | 1.9 | 2.5 | 2.0 | 2.0 | 1.5 | 2.2 | 2.9 | X | 30.0 |
| 1-3 | 0.7 | 9.0 | 0.4 | 0.4 | 9.0 | 0,3 | 0.2 | 0.3 | 0.5 | 9.0 | 0.7 | 1.0 | 1.0 | 0.9 | 6.0 | 0.7 | \bigvee | 6.6 |
| SPEED MPH DIR. | z | NNE | 3.7 | ENE | Ε, | ESE | SE | SSE | s | SSW | WS. | wsw | * | WHW | WW | NNW | CALM | 5.9 |

| ALL | ALL | BOURS (L.S.T.) | | | |
|----------------------------------|-------------------------------|----------------|------------------------|-----|---------------------|
| WBO July 1939 thru December 1942 | STATION AND TEACH ALL WEATHER | CLASS | 40° 48', 124° 10', 13' | -88 | HEIGHT ABOVE GROUND |
| CA | | • | · | | |
| Eureka, CA WBO | | | | | |

| MEAN WIND SPEED | 9.5 | 6.7 | 4.8 | 4.6 | 3.9 | 4.9 | 6.0 | 9.7 | 7.8 | 8.1 | 7.6 | 5.7 | 5.8 | 6.2 | 7.2 | 9.4 | 7.1 | |
|-----------------------|------|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----------|---------------|
| St. | 13.4 | 3.0 | 3.7 | 1.8 | 3.2 | 4.1 | 6.6 | 7.6 | 6.3 | 5.0 | 8.0 | 3.0 | 3.9 | 4.2 | 0.6 | 9.3 | 4.5 | 0.001 |
| | | | | | | | | | | | | | | | | | X | |
| | | | | | | | | | | | | | | | | | X | |
| | | | | | | | | | | | | | | | | | M | |
| | | | | | | | | | | | | | | | | | \bigvee | |
| | | | | | | | | | | | | | | | | | X | |
| | | | | | | | | | | | | | | | | | \bigvee | |
| > 47 | | | | | | | | | | | | | | | | | X | |
| 32-47 | | | | | | | | | | 0.0 | | | | | | | M | 0 |
| 4-15 16-31 | 1.7 | 0.1 | | 0.0 | | | 0.3 | 1.0 | 0.4 | 0.4 | 0,4 | 0.0 | | 0.0 | 0.2 | 0.9 | X | r. |
| 4-15 | 10.4 | 2.3 | 2.4 | 1.2 | 1.6 | 2.8 | 6.7 | 5.8 | 4.6 | 3,9 | 6.2 | 2.2 | 2.9 | 3.5 | 7.7 | 7.9 | X | 72.1 |
| 1-3 | 1.3 | 0.7 | 1.3 | 9.0 | 1.6 | 1.3 | 2.9 | 0.8 | 1.3 | 0.7 | 1.4 | 0.8 | 1.0 | 0.7 | 1.1 | 0.7 | \bigvee | 1.5 18.0 72.1 |
| SPEED MPH DIR. | z | NNE | S.S. | ENE | | ESE | SE | SSE | S | SSW | SW | WSW | W | WHW | WW | MNM | CALM | 4.5 |
| | | | | | | | | | | | | | | | | | | |

TOTAL NUMBER OF OBSERVATIONS 63,771

| ALL BROWN (LG.T.) | | * | 2.5 | 0.5 | 5.0 | 5.6 | 15.0 | 18 | 9.4 | 2.8 | 14.0 | 0.4 | 13.3 | 9.1 | 19.9 | 1.5 | 3.5 | 0.8 | \ \/ | 6.66 | |
|---------------------------------|---------------------|------|-----|------|-----|-----|------|-----|-----|-----|------|-----|------|-----|------|-----|-----|-----|-------------------|------|---|
| | | - | - | | | - | | | L | - | | | | | | | | | X | | |
| | | - | - | | | | | | | | | | | | | | | | Å | | |
| YZARG | | | - | | | | | | | | | | | | | | | | $\langle \rangle$ | | ر ا |
| | 9 | | | - | | | - | | | | | | | | | | | | $\langle \rangle$ | | Data from South Goast Air Quality Management District |
| ALL WEATHER CLASS | HEIGHT ABOVE GROUND | | | | | | | | | | | | | | | | | | X | | Booment |
| ALL W | HEIGHT A | - | | | | | | | | | | | | | | | | | X | | 1tv Mar |
| 1170 55' | | | | | | | | | | | | | | | | | • | | X | | r Onal |
| 350 421 | | | | | | | | | | | | | | | | | | | X | | Pat A1 |
| 330 | | | | | | | | | | | | | | | | | | | X | | The Co |
| 35 ⁰ 42 ¹ | | | | | | | | | | | | | | | | | | | X | | S mon |
| | | MPHP | z | N.N. | N. | ENE | E . | 158 | SE | 358 | 2 | SSW | SW | WSW | * | WIW | MM | NOW | CALM | | Data F |

These data are available on an hourly basis. Note:

| ALL ALL PROVE (LET.) | WIND SPEED | 16.7 | 14.8 | 13.3 | 9.7 | 11.5 | 71.3 | 10.0 | 10.7 | 11.6 | 12.7 | 15.1 | 14.2 | 14.8 | 0.0 | 8.5 | 2.2 | | 10 B |
|---|---------------|------|------|------|-----|------|------|------|------|------|------|------|------|------|-----|-----|-----|-----|------|
| | × | 2.7 | 8 | 11.7 | 8.0 | 2.0 | 0.8 | 0.0 | 0.3 | 6.0 | 2,00 | 7.3 | 18.1 | 17.3 | 8.7 | 5.3 | 4.0 | | 1001 |
| | | | | | | | | | | | | | | | | | | X | |
| | | | | | | | | | | | | | | | | | | X | |
| 11/72 | | | | | | | | | | | | | | | | | | X | |
| 1/1/56 - 12/31/72 | | | | | | | | | | | | | | | | | | M | |
| 1/1/56 | | | | | | | | | | | | | | | | | | M | |
| E S | | | | | | | | | | | | | | | | | | X | |
| ALL V. 109 | | | | | | | | | | | | | | | | | | X | |
| 17° 30 | | | | | | | | | | | | | | | | | | X | |
| Kaiser ALL WEA 24° 05', 117° 30', 1090' | | | | | | | | | | | | | | | | | | X | |
| Fontana - Kaiser | | | | | | | | | | | | | | | | | | X | |
| ontana | | | | | | | | | | | | | | | | | | X | |
| E | MPH DIR. | z | N. | ž | ENE | | 128 | SE | 358 | • | WS8 | NS. | WSW | * | WHW | MA | NOW | SLK | |
| KST O66W | | | | | | | | | | | | | | | | | | | |

-105-

Note: These data are available on an hourly basis.

139.747

TOTAL NUMBER OF OBSERVATIONS

South Coast Air Quality Management District 9420 Telstar Avenue El Monte, CA 91731

Data from

Fort Bragg, California - Casper Field January 1943 thru May 1945

1110/1112 - Casper Field Galdary 1979 Unit may

ALL WEATHER

S90 281, 123³ 451, 7551

211

HEIGHTABOVE GROUND

ALL ALL HOURS (LS.T.)

| MEAN WIND SPEED | 7.9 | 5.4 | 4.7 | 7.5 | 7.7 | 7.4 | 6.8 | 6.3 | 6.3 | 7.3 | 6.2 | 5.9 | 5.8 | 7.5 | 10.1 | 10.3 | 7.6 | |
|-----------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|-----------|----------------|
| м | 0.9 | 3.0 | 2.8 | 3.3 | 6.1 | 0.6 | 8,4 | 3.1 | 4.1 | 2.9 | 5.6 | 3.4 | 1.0 | 6.1 | 15.5 | 12.5 | 1.2.1 | 100.0 |
| | | | | | | | | | | | | | | | | | X | |
| | | | | | | | | | | | | | | | | | X | |
| | | | | | | | | | | | | | | | | | X | |
| | | | | | | | | | | | | | | | | | X | |
| _ | | | | | | | | | | | | | | | | | X | |
| < 47 | | | | | | | | | | | | | | | | | X | |
| 32-46 | | | | | 0.0 | 0.0 | | | 0.0 | | | | | | | | X | 0.1 |
| 13-24 25-31 32-46 | 0.0 | | | 0.0 | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 | 0.1 | 0.2 | | - | 0.0 | 0.1 | 0.1 | \bigvee | 9.0 |
| | 1.0 | 0.1 | 0.0 | | 6.0 | 1.2 | 6.0 | 0.2 | 0.2 | 0.3 | 0.2 | 0.1 | 0.5 | 0.8 | 7.4 | 3.9 | X | 15.2 |
| 4-12 | 0.4 | 1.9 | 1.6 | 2.3 | 4.1 | 0.9 | 5.7 | 2.1 | 2.8 | 1.9 | 4.1 | 2.6 | 4.4 | 4.2 | 0.6 | 7.2 | X | 63.9 |
| 1-3 | 1.0 | 1.0 | 1,2 | | 1.2 | 1.7 | 1 8 | 0.7 | 1.1 | 9.0 | 1.3 | 0.7 | 1.5 | 1.1 | 1.7 | 1.2 | X | 18.1 63.9 15.2 |
| MEH. | z | NNE | 2 | 3N3 | | ESE | SE | SSE | s | SSW | SW | WSW | * | WHW | WW | NNN | CALM | 2.1 |

DATA FROM NATIONAL CLIMATIC CENTER FEDERAL BUILDING - ASHEVILLE, N.C., 28801

TOTAL NUMBER OF OBSERVATIONS 17,271

-106-

PERCENTAGE FREQUENCY OF WIND (FROM HOURLY OBSERVATIONS) DIRECTION AND SPEED

| | - | _ | _ | _ | - | _ | _ | | _ | _ | _ | _ | _ | _ | _ | - | _ | _ | _ |
|-------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|-----|-----|---|-----------|-----------|
| MEAN WIND SPEED | 4.7 | 4.7 | 4.9 | 4.9 | 8.3 | 5.8 | 9.9 | 4.3 | 4.6 | 5.2 | 7.2 | 7.8 | 8.2 | 8.2 | 6.7 | 5.4 | | | 5.6 |
| × | 8. | 6. | 1.8 | 2.4 | 5.9 | 5.5 | 2.2 | . 7 | 1.1 | 2.7 | 8.4 | 11.3 | 21.1 | 10.8 | 2.7 | 6. | | 20.7 | 100.0 |
| % AI | | | | | | | | | | | | | | | | | | X | |
| 48 - 55 | | | | | | | | | | | | | | | | | | X | |
| 41 - 47 | | | | | | | | | | | | | | | | | | M | |
| 34 - 40 | | | | | | | | | | | | | | | | | | M | |
| 28 - 33 | | | | | | | 0. | | | | | | | 0. | | | | X | 0. |
| 22 - 27 | | | | | | 0. | 0. | | | 0. | 0. | | | 0. | 0. | | | M | .1 |
| 17 - 21 | 0, | 0. | | | 0. | 0. | .1 | 0. | 0. | 0. | .1 | .1 | .1 | .2 | 0. | 0. | | X | 9. |
| 11 . 16 | 0. | 0. | .1 | .1 | .2 | . 4 | .3 | 0. | 0. | .2 | 1.5 | 2,3 | 4.9 | 2.4 | ۴, | .1 | | X | 12.7 |
| 7 - 10 | .1 | .1 | . 4 | • 5 | 1.5 | 1.4 | .5 | .1 | .2 | .5 | 2.8 | 4.5 | 0.6 | 4.3 | 6. | . 2 | | X | 27.0 12.7 |
| 9 . 4 | .3 | . 4 | 8. | 1.1 | | 2.2 | .7 | .2 | 4. | 1.1 | 2.8 | 3.2 | 5.4 | 2.9 | 1.0 | 4. | | \bigvee | 25.4 |
| 1.3 | .3 | . 4 | 9. | 8. | 1.6 | 1.5 | 9. | .3 | .5 | 6. | 1.3 | 1.2 | 1.8 | 1.8 | .5 | .3 | | \bigvee | 13.5 |
| SPEED (KNTS) DIR. | z | NNE | Z. | ENE | . 3 | ESE | SE | SSE | S | SSW | SW | WSW | * | WNW | NW | MNN | | CALM | 20.7. |

DATA FROM NATIONAL CLIMATIC CENTER FEDERAL BUILDING - ASHEVILLE, N.C., 28801

TOTAL NUMBER OF OBSERVATIONS

86943

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED

| | ALL | MONTH | ALL | MOUSS (L.S.T.) | | | |
|----------------------------|---|--------------------|-------------|---|----------|-----|---------------------|
| (FROM HOURLY OBSERVATIONS) | FRESNO CALIFORNIA/AIR TERMINAL 41-45, 49-68 | STATION MAME YEARS | ALL WEATHER | 36 ⁰ 46', 119 ⁰ 43', 327' | LOCATION | 20. | HEIGHT ABOVE GROUND |

93193

| MEAN WIND SPEED | 4.2 | 3.9 | 3.7 | 4.0 | 4.2 | 5.0 | 5.6 | 5.5 | 4.9 | 4.5 | 4.2 | 4.7 | 5.6 | 7.5 | 7.3 | 5.6 | | 5.5 |
|-------------------------|-----|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|-----|-----------|-------|
| × | 4.0 | 1.6 | 3.5 | 3.1 | 5.7 | 4.7 | 7.2 | 4.2 | 4.3 | 2.5 | 3.5 | 2.5 | 6.1 | 14.5 | 21.6 | 5.9 | 5.1 | 100.0 |
| 1 26 | | | | | | | | | | | | | | | | | \bigvee | |
| 48 - 55 | | | | | | | | | | | | | | | | | \bigvee | |
| 41 - 47 | | | | | | | | | | | | | | | | | \bigvee | |
| 34 - 40 | | | | | | | 0. | 0. | | | | | | | | | X | 0. |
| 28 - 33 | | | | | | | 0. | 0. | 0. | | 0. | | 0. | 0. | 0. | 0. | X | 0. |
| 22 - 27 | 0. | 0. | | | | 0. | 0. | 0. | 0. | 0. | 0. | | 0. | 0. | 0. | 0. | X | .1 |
| 17 - 21 | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | . 2 | .3 | 0. | X | 9. |
| 11 - 16 | .1 | 0. | 0. | 0. | .1 | .2 | .5 | .2 | .1 | 0. | 0. | 0. | £. | 2.1 | 3.2 | е. | X | 7.3 |
| 7 . 10 | . 4 | .1 | . 2 | ,2 | .5 | φ. | 1.7 | 1.0 | .7 | .3 | . 4 | . 4 | 1.6 | 0.9 | 8.0 | 1.4 | X | 23.8 |
| 4.6 | 1.6 | 9. | 1.1 | 1.4 | 2.5 | 2.3 | 2.8 | 1.7 | 1.8 | 1.0 | 1.4 | 1.1 | 2.4 | 4.5 | 8.9 | 2.4 | X | 35.6 |
| 1.3 | 1.9 | 6. | 2.1 | 1.5 | 5.6 | 1.5 | 2.2 | 1.2 | 1.6 | 1.0 | 1.7 | 6. | 1.7 | 1.7 | 3.2 | 1.7 | X | 27.4 |
| SPEED (KNTS) DIR. | z | NNE | . NE | 3V3 | 3 | ESE | SE | SSE | S | SSW | sw | wsw | * | WNW | WW | MNM | CAUA | 5.1. |
| | | | | | | | | | | | | | | | | | | |

181408

TOTAL NUMBER OF OBSERVATIONS

PERCENTAGE FREQUENCY OF WIND (FROM HOURLY OBSERVATIONS) DIRECTION AND SPEED

| 1930 thru 1938 ALL | TARS | | | | WIN WIN | 5.5 | 0.3 | 1.3 | 0.3 | 3 |
|--------------------|--------------------------|-----------------------|----------|---------------------|------------------|-----|---------|-------|----------|-----|
| er Field | STATION HAME ALL WEATHER | 36 441, 119 491, 2801 | LOCATION | HEIGHT ABOVE GROUND | 4-15 16-31 32-47 | 0.1 | C | C | | |
| Fresno | | | ! | 1 | MPH 4-15 | 5.1 | NNE O.3 | S. C. | ENE O. 3 | 3.1 |

| MPH MPH DIR. | 4-15 | 4-15 16-31 32-47 | 32-47 | | | | | | | | | N. | WIND WIND SPEED |
|--------------------|-------|------------------|-------|---|-----------|-----------|---|---|---|---|---|---------|-----------------------|
| z | 5.1 | 0.1 | | | | | | | | | | 5.2 | |
| NXX | 0.3 | 0 | | | | | | | | | | 0.3 | |
| ž | 1,3 | 0 | | | | | | | | | | 1.3 | |
| 3N3 | 0.3 | | | | | | | | | | | 0.3 | |
| | 3.1 | 0 | | | | | | | | | | 3.1 | |
| 181 | 1.7 | C | | | | | | | | | | 1.7 | |
| SE | 3.0 | 0.1 | 0 | | | | | | | | | 0.17 | |
| SSE | | 0 | | | | | | | | | | ر در | |
| 57 | 1.8 | 0 | | | | | | | | | | 20. | |
| SSW | 0.5 | | | | | | | | | | | 0.5 | |
| »S | 1.3 | 0 | | | | | | | | | | | |
| WSW | 0.7 | 0 | | | | | | | | | | 7.0 | |
| * | 5.5 | 0.1 | | | | | | | | | | 5.6 | |
| WHW | 8.5 | h.0 | 0 | | | | | | | | | σα | |
| WW | 123.4 | 1,2 | 0 | | | | | | | | | 24.6 | |
| MNM | 3.5 | 0.2 | | | | | | | | | | 3.7 | |
| | | | | | | | | | | | | | |
| CALM | X | \bigvee | X | X | \bigvee | \bigvee | X | X | X | X | X | 35.7 | |
| 35.7 | 62.2 | 2.0 | 0.0 | | | | | | | | | 6.66 | |

78,369

42-46,48,50-72 HEIGHT ABOVE GROUND ALL WEATHER CLASS 2849' GEORGE AFB CALIF/VICTORVILLE 117023' STATION MAME 340351, 131

23131

ALL ALL BOURS (L.B.T.)

DATA FROM NATIONAL CLIMATIC CENTER FEDERAL BUILDING - ASHEVILLE, N.C., 28801

232810

TOTAL NUMBER OF OBSERVATIONS

-110-

STATION

| MEA! WINE | 4 | 7 | 9 | 9 | 9 | 7 | 9 | 9 | 2 | 2 | 5 | 5 | 2 | 5 | 20 | 5. | 5 | |
|-------------------|-----|-----|-----|-----|-----|-----|------|-----|-----|-----|------|-----|-----|-----|-----|-----|-----------|-------|
| ж | 1.3 | 0.6 | 1.3 | 1.3 | 5.0 | 8 6 | 18.3 | 8.6 | 5.8 | 2.4 | 3.8 | 2.1 | 6.4 | 0 | | 2.0 | 15.6 | 0.001 |
| | | | | | | | | | | | | | | | | | \bigvee | |
| | | | | | | | | | | | | | | | | | X | |
| | | | | | | | | | | | | | | | | | X | |
| | | | | | | | | | | | | | | | | | X | |
| | | | | | | | | | | | | | | | | | X | |
| 247 | | | | | | | | | | | | | | | | | X | |
| 32-46 | | 0.0 | | | 0.0 | | | | | | | | | | 0.0 | | X | 0.0 |
| 13-24 25-31 32-46 | | 0.0 | 0.0 | 0.0 | 0.0 | | | | | | | | 0.0 | 0.0 | 0.0 | | X | 0.1 |
| | 0.1 | 0.1 | 0.1 | 0.1 | 0.2 | 0.5 | 0.5 | 0.1 | 0.0 | 0.0 | 0.1 | 0.1 | 0.1 | 0.2 | 0.3 | 0.1 | X | 2.6 |
| 4-12 | 0.8 | 0.2 | 0.7 | 0.9 | 3.8 | 8.4 | 14.7 | 6.9 | 4.0 | 1.7 | 2.5 | 1.3 | 4.3 | 4.3 | 9.9 | 1.5 | X | 62.7 |
| 1-3 | 0.4 | 0.2 | 0.4 | 0.3 | 1.0 | 6.0 | 3.1 | 1.5 | 1.8 | 0.7 | 1.2 | 9.0 | 2.0 | 1.5 | 2.7 | 9.0 | \bigvee | 19.0 |
| SPEED MP.H | z | N N | a z | ENE | . 4 | ESE | SE | SSE | 82 | SSW | NS W | WSW | * | WHW | WW | MNN | CALM | 15.6 |

DATA FROM NATIONAL CLIMATIC CENTER FEDERAL BUILDING - ASHEVILLE, N.C., 28801

TOTAL NUMBER OF OBSERVATIONS 22, 379

| | ALL | YZARS | ALL | MOURS (L.S.T.) | | | | |
|----------------------------|-------------------------------------|--------------|-------------|----------------|--|----------|-----|---------------------|
| (rkOm nooker Observations) | HAMILTON AFB CALIF/SAN RAFAEL 39-70 | STATION NAME | ALL WEATHER | CLASS | 38 ⁰ 04', 122 ⁰ 31', 14' | LOCATION | 33' | HEIGHT ABOVE GROUND |

23211 STATION

| | | | _ | _ | _ | _ | | | | | | | | | _ | | | |
|-------------------------|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|-----------|-------|
| MEAN WIND SPEED | 5.3 | 6.2 | 5.3 | 5.8 | 6.3 | 6.5 | 7.4 | 8.4 | 7.1 | 7.8 | 9.9 | 7.1 | 6.5 | 8.7 | 7.5 | 6.8 | | 4.8 |
| * | 4.3 | 1.2 | 1.4 | 1.0 | 4.8 | 3.9 | 8.8 | 3.5 | 4.1 | 3.3 | 4.4 | 2.0 | 4.9 | 4.9 | 10.4 | 5.6 | 31.6 | 100.0 |
| % AI | | | | | | | | | | | | | | | | | X | |
| 48 - 55 | · | | | | | | | | | 0. | | | | | | | X | 0. |
| 41 - 47 | 0. | 0. | 0. | | | | | | | 0. | | | | | | | \bigvee | 0. |
| 34 - 40 | 0. | 0. | 0. | | | | 0. | | 0. | 0. | 0. | 0. | 0. | | | | \bigvee | 0. |
| 28 - 33 | 0. | 0. | 0. | | | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | X | 0. |
| 22 - 27 | 0. | 0. | 0. | | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | X | .3 |
| 17 - 21 | .1 | 0. | 0. | 0. | .1 | 0. | .1 | .1 | .1 | .1 | .1 | 0. | .1 | .2 | .2 | .1 | \bigvee | 1.3 |
| 11 - 16 | .3 | .1 | .1 | .1 | .5 | . 4 | 1.3 | 8. | 9. | 9. | .5 | . 2 | .7 | 1.2 | 1,8 | .8 | X | 9.8 |
| 7 - 10 | ω. | .2 | .3 | * 3 | 1.4 | 1.3 | 3.7 | 1.4 | 1.1 | 1.0 | 1.4 | .7 | 1.5 | 2.0 | 4.0 | 1.8 | X | 23.0 |
| 4.6 | 1.1 | . 4 | . 4 | • 3 | 1.5 | 1.4 | 2.2 | 8. | 1.0 | 6. | 1.2 | 9. | 1.0 | 1.0 | 2.3 | 1.5 | X | 17.6 |
| 1.3 | 1.9 | 4. | 9. | .3 | 1.3 | ∞. | 1.5 | . 4 | 1.1 | .7 | 1.2 | . 4 | 1.6 | 9. | 2.1 | 1.5 | X | 16.4 |
| SPEED (KNTS) DIR. | z | N.X. | ž. | ENE | E | ESE | SE | SSE | S | SSW | SW | WSW | * | WHW | WW | NNN | CAUA | 31.6. |
| | | | | | | | | | | | | | | | | _ | | |

DATA FROM NATIONAL CLIMATIC CENTER FEDERAL BUILDING - ASHEVILLE, N.C., 28801

278159

TOTAL NUMBER OF OBSERVATIONS

-112-

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED

| | ALL | Beerts | ALL | Books (L.C.T.) |
|--|---------------------------------|-------------|-------------|--|
| DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS) | Hawthorne, Dana JHS 1970 - 1974 | STATION WAS | ALL WEATHER | 35° 54, 118° 06' 135th Street - Aviation Blvd. |

DANA 120W

| MEAN WIND SPEED | 4.4 | | ۰ | 2.5 | 2.4 | 2.3 | 2.4 | 2.3 | 1.7 | 2.7 | 4.1 | 5.4 | 6.1 | 4.6 | 2.0 | 4.00 | | 4.0 | |
|-----------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|-----|-----|------|-----------|-------|---|
| at | 5.5 | 2 | 4.8 | 7.3 | 7.3 | 5.7 | 4.1 | 2.8 | 2.4 | 0.4 | 6.6 | 23.8 | 12.2 | 4.4 | 2.8 | 2.5 | - | 10001 | |
| | | | | | | | | | | | | | | | | | \bigvee | | |
| | | | | | | | | | | | | | | | | | X | | |
| | | | | | | | | | | | | | | | | | X | | |
| | | | | | | | | | | | | | | | | | X | | 40 50 |
| | | | | | | | | | | | | | | | | | X | | A S C S S S S S S S S S S S S S S S S S |
| | | | | | | | | | | | | | | | | | X | | 0 0000 |
| | | | | | | | | | | | | | | | | | X | | 1100 |
| | | | | | | | | | | | | | | | | | X | | |
| | | | | | | | | | | | | | | | | | X | | |
| | | | | | | | | | | | | | | | | | X | | |
| | | | | | | | | | | | | | | | | | X | | |
| MPH DIR. | z | NNE | Z | ENE | | 155 | 35 | SSE | 5 | SSW | SW | WSW | * | WHW | MW | NNN | CALM | | |

TOTAL NUMBER OF OBSERVATIONS 22, 5444 9420 Telstar Avenue El Monte, CA 91731

These data are available on an hourly basis.

Note:

| ALL | монти | ALL | BOURS (L.S.T.) | | | | |
|-----------------|--------------------|-------------|----------------|------------------------|----------|-----|---------------------|
| High Point Site | STATION MANE YEARS | ALL WEATHER | CLASS | 35•57', 121•14', 1857' | LOCATION | 101 | HEIGHT ABOVE GROUND |

STATION

| MEAN WIND SPEED | | | | | | | | | | | | | | | | | | | |
|------------------------|------|-----------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|-----------------------------|--|
| Ж | 5.57 | 4.55 | 95.9 | 9.37 | 5.38 | 5.01 | 68.9 | 6.23 | 4.29 | 3.03 | 2.29 | 3.82 | 6.49 | 5.55 | 3.01 | 4.70 | 17.27 | 100.00 | |
| | | | | | | | | | | | | | | | | | X | | SHOITAVERS OF ORGENIAMIN INTOI |
| | | | | | | | | | | | | | | | | | X | | SHO SO SHA |
| | | | | | | | | | | | | | | | | | X | | TOTAL MIN |
| | | | | | | | | | | | | | | | | | X | | |
| 18 < | | | | | | | | | | | | | | | | | X | 0.23 | |
| 25-31 | 200 | | | | | | | | | | | | | | | | X | 0.53 | ation |
| 13-18 19-24 25-31 > 31 | 100 | | | | | | | | | | | | | | | | X | 1.26 | Reserv |
| 13-18 | 24 | | | | | | | | | | | | | | | | X | 4.12 | itary |
| 8-12 | 2 | | | | | | | | | | | | | | | | X | 42.22 23.78 10.59 4.12 1.26 | tt Mil |
| 4-7 | | | | | | | | | | | | | | | | | X | 23.78 | regge |
| -1 | 1 | | | | | | | | | | | | | | | | \bigvee | | Hunter |
| SPEED DIR. | z | MXX MX | ž | a N | , 3 | ESE | SE | SSE | s | SSW | sw. | WSW | * | WHW | WW | MNM | CALM | 17.27 | DATAFROM Hunter Leggett Military Reservation |

TOTAL NUMBER OF OBSERVATIONS 54,461

| ALL | ALL | | | | WIND SPEED | 3.4 | 4.2 | 3.9 | 5.1 | m | 7.5 | 3.4 | 4.2 | 3,1 | 5.1 | 4.8 | 5.1 | 7.0 | 4.6 | 6•3 | 5.5 | | 4.1 | 53 |
|-------------------|--------------|----------------------|----------|---------------------|---------------|-----|------|------|-----|-------------|------|------|-----|------|-----|------|-----|-----|-----|-----|--------------|------|------|---|
| | | | | | и | 8.0 | 1,2 | 12.0 | 0.8 | 8. 6 | 0.7 | 10.2 | 9.0 | 15.9 | 1.5 | 30.6 | 0.8 | 2.7 | 0.1 | 5.8 | p.º 0 | 1 | 7-66 | TOTAL NUMBER OF OBSERVATIONS 159, 529 |
| | | | | | | | | | | | | | | | | | | | | | | X | | RYATIONS |
| | 1 | 1 | ŀ | 1 | | | | | | | | | | | | | | | | | , | X | | HER OF ORSE |
| | YEARS | | | | | | | | | | | | | | | | | | | | | X | | TOTAL NUM |
| | | | | | | | | | | | | | | | | | | | | | | X | | rict |
| 1/1/55 - 12/31/74 | | eet | | 0.4 | | | | | | | | | | | | | | | | | | X | | t Dist |
| 1/1 | ATHER | 1007 Vine Street | LOCATION | HEIGHT ABOVE GROUND | | | | | | | | | | | | | | | | | | X | | South Coast Air Quality Management District 9420 Telstar Avenue El Monte, CA 91731 |
| | ALL WEATHER | 1007 | 10°, | HEIGHT A | | | | | | | | | | | | | | | | | | X | | ty Man |
| | | ,250', | | | | | | | | | | | | | | | | | | | | X | | Quali- |
| | STATION MANS | 34°06', 118°20,250', | | | | | | | | | | | | | | | | | | | | X | | st Air |
| | BTATIO | 34°06', | | | | | | | | | | | | | | | | | | | | X | | th Coa |
| Hollywood | | | 1 | | | | | | | | | | | | | | | | | | | X | | rom Sou 942 El |
| Holly | | | | | MAN DIE. | z | N.X. | X | ENE | , 1 | 15.5 | 38 | 556 | s | SSW | SW. | WSW | * | WHW | WW | MNW | CALM | | Data from |
| HOL | STATES | | | | | | | | | | | | | | | | | | | | | | | |

These data are available on an hourly basis.

Note:

| ALL | ALL | HOURS (L. T.) | |
|------------------------------|--------------|-------------------------|---------------------|
| July 1943 thru February 1945 | ALL WEATHER | 36° 53', 121° 24', 247' | HEIGHT ABOVE GROUND |
| Hollister | STATION MAME | | |
| | 87A 71048 | | |

| MPH OR. | 1-3 | 4-10 | 11-21 | 11-21 22-27 28-40 | 28-40 | | | | | | | M. | MEAN WIND SPEED |
|------------|------|------|-------|-------------------|-------|---|-----------|---|---|---|---|-------|-----------------------|
| z | 4.5 | 2.2 | 0.3 | | 0,1 | | | | | | | 7.2 | 4.2 |
| N.X | 0 | 0.1 | | | | | | | | | | 0.2 | 4.3 |
| Z | 7.6 | 0.2 | 0.1 | | | | | | | | | 1.9 | 3.0 |
| ENE | C | 0.1 | | | | | | | | | | 0.1 | 6.5 |
| - | 0.7 | 2.0 | 7.0 | | | | | | | | | 12.1 | 3.0 |
| ESE | 0.2 | 0.3 | 0.3 | | | | | | | | | 0.7 | 7.3 |
| SE | 2.7 | 1.2 | 0.3 | | | | | | | | | 4.2 | 4.3 |
| \$5£ | 0.1 | 0.1 | | | | | | | | | | 0.2 | 3.2 |
| S | 0.4 | 1.3 | 7.0 | | | | | | | | | 5.7 | 3.00 |
| SSW | 0.2 | 0.3 | | | | | | | | | | 0.5 | 4.4 |
| SW | 2.5 | 4.4 | 0.6 | 7.0 | 0.1 | | | | | | | 16.4 | 12.1 |
| WSW | 0.5 | 1.9 | 2.6 | 0.1 | | | | | | | | 5.1 | 11.2 |
| * | 12.0 | 12.6 | 0.80 | 0.3 | | | | | | | | 33.1 | 7.1 |
| WHW | 1.0 | m | 0.4 | | | | | | | | | 2.7 | 6.2 |
| WW | 3.2 | 2.5 | 9.0 | | | | | | | | | 6.3 | 4.7 |
| MNN | 0.1 | 0.9 | | | | | | | | | | 0.2 | 4.3 |
| | | | | | | | | | | | | | |
| CALM | X | X | X | X | X | X | \bigvee | X | X | X | X | 3.5 | 9.9 |
| 2. | 42.6 | 30.4 | 22.5 | 0 | 0.2 | | | | | | | 100.0 | |

TOTAL NUMBER OF OBSERVATIONS

| ALL | MONTH | 4 hour | BOURS (L.S.T.) | | | |
|------------|--------------|-------------|----------------|----------------------|----------|---------------------|
| 1943-1945 | YEABG | ALL WEATHER | CLASS | | LOCATION | HEIGHT ABOVE GROUND |
| Holtsville | STATION NAME | ALL | | 32°50', 115°16', 56' | | HEIG |
| | 8Ta 7104 | | | | | |

| SPEED MPH DIR. | z | 377 | 7 | INE | | ESE | SE | SSE | s | SSW | SW | WSW | W | WHW | WW | NNW | CALM | |
|----------------------|-----|-----|-----|-----|-----|-----|------|-----|-----|-----|-----|-----|------|-----|------|-----|-----------|-----|
| | | | | | | | | | | | | | | | | | X | |
| | | | | | | | | | | | | | | | | | X | |
| | | | | | | | | | | | | | | | | | X | |
| | | | | | | | | | | | | | | | | | X | |
| | | | | | | | | | | | | | | | | | X | |
| | | | | | | | | | | | | | | | | | X | |
| | | | | | | | | | | | | | | | | | X | |
| | | | | | | | | | | | | | | | | | X | |
| | | | | | | | | | | | | | | | | | X | |
| | | | | | | | | | | | | | | | | | X | |
| | | | | | | | | | | | | | | | | | \bigvee | |
| ж | 5.3 | 0.8 | 2.3 | 6.0 | 4.1 | 1.9 | 19.6 | 2.5 | 9.6 | 1.3 | 5.4 | 1.4 | 15.1 | 3.9 | 20.1 | 2.4 | 3.5 | 000 |
| WIND SPEED | 5.4 | 2.9 | 3.1 | 2.1 | 2.9 | 3.8 | 4.7 | 5.6 | 3.8 | 3.8 | 4.1 | 3.8 | 5.5 | 4.9 | 4.6 | 6.1 | 4.2 | |

PATA FROM NATIONAL CLIMATIC CENTER FEDERAL BUILDING - ASHEVILLE, N.C., 28801

| ALL | All | Beens (La.T.) | |
|----------------------|-------------|---|--|
| Kyperion 1957 - 1960 | ALL WEATHER | 33 ⁰ 53', 118 ⁰ 27', 10', 12000 Vista Del Mar | AO O O O O O O O O O O O O O O O O O O |
| нур 084w | | | |

| South Coast Air Quality Management District | | | | | | | | | | | | | | | | | | XXX | |
|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|-----|--|
|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|-----|--|

Note: These data are available on an hourly basis.

| 1 14 | момти | ALL | BOURS (L.R.T.) | | | | |
|---|---------|-------------|----------------|--|----------|-----|---------------------|
| 07-03 08-30 GENERAL TER MEGG/ IND. UND INTEGRALIT | ì | ALL WEATHER | CLASS | 32 ⁰ 34', 117 ⁰ 07', 23' | LOCATION | 151 | HEIGHT ABOVE GROUND |
| 21100 | STATION | | | | | | |

| | | | | | | _ | | | | | | | | | | | | |
|-------------------------|-----|-----|-----|-----|------|-----|-----|-----|-----|-----|-----|-----|------|------|-----|-----|-----------|-------|
| MEAN WIND SPEED | 4.4 | 3.9 | 4.1 | 4.6 | 5.5 | 5.9 | 5.9 | 5.9 | 6.9 | 7.4 | 6.8 | 6.4 | 6.8 | 7.3 | 6.5 | 5.8 | | 5.8 |
| × | 2.6 | 1.2 | 2.6 | 2.8 | 11.3 | 3.0 | 3.5 | 1.2 | 4.8 | 4.8 | 9.9 | 6,3 | 17.9 | 11.3 | 9.1 | 2.6 | 8.2 | 100.0 |
| 95 AI | | | | | | | | | | | | | | | | | \bigvee | |
| 48 - 55 | | | | | | | | | | | | | | | | | \bigvee | |
| 41 - 47 | | | | | | | | | | | | | | | | | \bigvee | |
| 34 - 40 | | | | | 0. | | | 0 | | | | | | | | 0. | \bigvee | 0. |
| 28 - 33 | | | 0. | | 0. | 0. | 0. | 0. | 0. | 0. | 0. | | | | 0. | | \bigvee | 0. |
| 22 - 27 | | | 0. | 0. | 0. | 0. | 0. | 0. | , 1 | 0. | 0. | 0. | 0. | 0. | 0. | 0. | \bigvee | .2 |
| 17 - 21 | 0. | 0. | 0. | 0. | 7. | .1 | 0. | 0. | 2 | 1. | .1 | 0 | .1 | .1 | .1 | 0. | X | 6. |
| 91 - 12 | .1 | 0. | 0. | 0. | . 4 | . 2 | . 2 | .1 | .7 | ω. | 8. | .5 | 1.7 | 1.7 | 1.0 | .2 | X | 8.6 |
| 7 - 10 | 4. | .1 | е. | 4 | 2.7 | 9. | 6. | .2 | 1.1 | 1.5 | 2.3 | 2.2 | 7.3 | 4.5 | 2.9 | .7 | X | 28.1 |
| 9 | 1.0 | .5 | 1.1 | 1.4 | 5.3 | 1.2 | 1.3 | 4. | 1.4 | 1.5 | 2.1 | 2.5 | 6.3 | 3.6 | 3.3 | 1.0 | X | 33.9 |
| | 1.1 | 9. | 1.2 | 1.0 | 2.8 | 6. | 1.0 | .5 | 1.3 | 6. | 1.2 | 1.0 | 2.5 | 1.5 | 1.8 | .7 | X | 20.1 |
| SPEED (KNTS) DIR. | z | NNE | Z. | ENE | ш | ESE | SE | SSE | S | SSW | »s | WSW | * | WNW | WW | MNN | CALM | 8.2 |
| | | | | | | | | | | | | | | | | | | |

DATA FROM NATIONAL CLIMATIC CENTER FEDERAL BUILDING - ASHEVILLE, N.C., 28801

TOTAL NUMBER OF OBSERVATIONS

| | - 14 |
|--|-----------|
| Indio, CA (Coachella Caa) Jan 1937 thru Aug 1940 | HONT |
| ALL WEATHER | ALL |
| CLASS | MOUSS (L. |
| 33°41', 116°10',-62' | |
| LOCATION | |
| | |
| TEIGHT ABOVE | |

| MEAN WIND SPEED | | | | | | | | | | | | | | | | | | |
|-----------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|-----------|---------------|
| 3R | 6.9 | 9.0 | 1.1 | 0.2 | 1.0 | - | 5.8 | 3.3 | 3.7 | 1.4 | 2.6 | 6.0 | 4.6 | 5.1 | 31.9 | 8.5 | 21.1 | 0.001 |
| | | | | | | | | | | | | | | | | | \bigvee | |
| | | | | | | | | | | | | | | | | | \bigvee | |
| | | | | | | | | | | | | | | | | | M | |
| | | | | | | | | | | | | | | | | | X | |
| | | | | | | | | | | | | | | | | | X | |
| | | | | | | | | | | | | | | | | | X | |
| | | | | | | | | | | | | | | | | | X | |
| >47 | | | | | | | | | | | | | | | | | X | |
| 16-31 32-47 | 0.0 | 0.0 | | | | | | | | | | | | | 0.0 | 0.0 | X | 0.1 |
| | 0.5 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.1 | 0.0 | 0.0 | 0.0 | 0.1 | 0.1 | 0.2 | 5.1 | 3.1 | X | 9.4 |
| 4-15 | 6.4 | 0.5 | 1.1 | 0.2 | 6.0 | 1.1 | 5.7 | 3,3 | 3.7 | 1.4 | 2.6 | 0.8 | 4.5 | 4.9 | 26.8 | 5.4 | \bigvee | 21.1 69.3 9.4 |
| SPEED MPH DIR. | z | N. | ž | ENE | . 3 | ESE | 38 | SSE | S | SSW | »s | WSW | * | WNW | WW | NNW | CALM | 21.1 |

DATA FROM NATIONAL CLIMATIC CENTER FEDERAL BUILDING - ASHEVILLE, N.C., 28801

| AL | AL | | |
|--|-------------|----------------------|---------------|
| Jenner, CA AAB June 1943 thru May 1945 | ALL WEATHER | 38°27', 123°07', 236 | Tringen areas |
| 10101 | | | |

| MEAN WIND SPEED | 7.2 | 11.1 | 8.3 | 10.4 | 10.4 | 10.5 | 7.3 | 9 | 7 | 7. | 7.7 | 10.6 | 11.7 | 15.8 | 18.5 | 10.0 | | 10.5 |
|-----------------------|-----|-------|-----|---------|------|------|-----|-----|-----|-----|------|------|------|------|------|------|-----------|-------|
| × | 1.0 | 2.8 | 3.9 | 12.4 | 8.8 | 11.3 | 3.5 | 5.9 | 4.3 | 6.3 | 5.7 | 11.4 | 6.9 | 8.5 | 4.2 | 2.0 | 1.1 | 0.001 |
| | | | | | | | | | | | | | | | | | \bigvee | |
| | | | | | | | | | | | | | | | | | X | |
| | | | | | | | | | | | | | | | | | X | |
| | | | | | | | | | | | | | | | | | \bigvee | |
| | | | | | | | | | | | | | | | | | X | |
| 2 47 | 0.0 | 0.0 | | | | | | | | | | | | | 0.0 | 0.0 | X | 0 |
| 25-31 32-46 | 0.0 | 0.1 | 0.0 | 0.1 | | 0.0 | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 | 0.3 | 0.4 | 0.7 | 0.7 | 0.0 | X | 2.5 |
| 25-31 | 0.0 | 0.1 | 0.0 | 0.4 | 0.2 | 0.2 | 0.0 | 0.3 | 0.1 | 0.1 | 0.0 | 0.4 | 0.3 | 0.8 | 9.0 | 0.1 | X | 3.7 |
| 13-24 | 0.1 | 8.0 | 0.7 | 3.1 | 2.2 | 3.3 | 0.4 | 1.1 | 0.5 | 0.7 | 9.0 | 2.4 | 1.5 | 3.0 | 1.4 | 0.5 | X | 22.4 |
| 4-12 | 0.3 | 1.2 | 2.3 | 7.8 | 5.6 | 7.1 | 2.2 | 3.0 | 2.8 | 4.5 | 4.2 | 7.5 | 3.8 | 3.6 | 1.2 | 1.0 | X | 58.1 |
| 1-3 | 0.5 | 9.0 | 8.0 | 1.0 | 0.7 | 0.7 | 0.8 | 1.3 | 6.0 | 1.0 | 0.8 | 6.0 | 6.0 | 0.3 | 0.4 | 0.4 | \bigvee | 12.1 |
| SPEED MPH DIR. | z | m X X | ž | ana ana | | ESE | SE | SSE | v | SSW | S.W. | WSW | * | WHW | WW | MNN | CALM | |

DATA FROM NATIONAL CLIMATIC CENTER FEDERAL BUILDING - ASHEVILLE, N.C., 28801

13,569

TOTAL NUMBER OF OBSERVATIONS

-121-

| ALL | | | WIN | | | | | | | | | | | | | | | | | | |
|---------------------|-------------------------|---------------------|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-------|-------|------|---|
| (i • | NOVAS (L.S.T.) | | 3K | 7.12 | 3.69 | 4.48 | 5.02 | 3.28 | 4.76 | 8.85 | 8.30 | 5.31 | 3.88 | 4.58 | 3.22 | 1.33 | 5.43 | 12.79 | 14.12 | 3.83 | |
| | | | | | | | | | | | | -3 | | | | | | | | X | |
| | 1 | 1 | | | | | | | | | | | | | | | | | | X | |
| YEARS | | | | | | | | | | | | | | | | | | | | X | |
| YEAR | | | | | | | | | | | | | | | | | | | | X | |
| 1 | | o Z | > 31 | | | | | | | | | | | | | | | | | X | |
| ATHER | 040° | HEIGHT ABOVE GROUND | 19-24 25-31 | | | | | | | | | | | | | | | | | X | |
| ALL WEATHER | 1,04 | HEIGHT AB | 19-24 | | | | | | | | | | | | | | | | | X | |
| บ | 36°00', 121°14', 1,040' | 101 | 13-18 | | | | | | | | | | | | | | | | | X | |
| NAME SEC | 00', 13 | | 8-12 | | | | | | | | | | | | | | | | | X | |
| JOION-AILITEIG SILE | 36° | | 4-7 | | | | | | | | | | | | | | | | | X | |
| JOTOR | 1 | I | 1-3 | | | | | | | | | | | | | | | | | X | |
| | | | MPH DIR. | z | ZVZ | ž | 3VE | , 3 | ESE | SE | SSE | S | SSW | SW. | WSW | * | WHW | WW | NNN | CALM | - |

TOTAL NUMBER OF OBSERVATIONS 60, 306

DATA from Hunter Leggett Military Reservation

SURFACE WINDS

| | ALL | MONTH | ALL | HOURS (L.S.T.) | | | | |
|---|--|--------------|-------------|----------------|--|----------|-----|---------------------|
| PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS) | KLAMATH FALLS ORE/KINGSLEY FLD 48-54,59-70 | ETATION NAME | ALL WEATHER | CLASS | 42 ⁰ 09', 121 ⁰ 44', 4091' | LOCATION | 13, | HEIGHT ABOVE GROUND |

94236

| | | | | | | | | | | | | | | | | | | | |
|-------------------------|-----|-----|------|-----|-----|-----|-----|-----|------|-----|-----|-----|-------|-----|-----|-----|-----------|-------|--|
| MEAN WIND SPEED | 5.8 | 5.7 | 5.1 | 4.8 | 4.4 | 4.3 | 6.6 | 9.5 | 10.0 | 7.9 | 7.1 | 8.2 | 7.7 | 7.2 | 6.8 | 7.6 | | 4.8 | |
| 3K | 6.4 | 1.9 | 1.2 | 1.1 | 1.8 | 1.9 | 3.0 | 6.5 | 5.4 | 2.3 | 2.5 | 3.9 | 9.0 | 4.7 | 5,1 | 9.0 | 34.4 | 100.0 | |
| VI 85 | | | | | | | | | | | | | | | | | \bigvee | | |
| 48 - 55 | | | | | | | | | 0 | | | | d | | | | \bigvee | 0. | |
| 41 - 47 | | | | | | | | 0 | 0 | | 0, | | | 0 | | | \bigvee | 0. | |
| 34 - 40 | | | | | | | | 0, | 0. | 0 | 0. | 0 | 0 | q | | | X | 0. | |
| 28 - 33 | О | 0 | | | 0 | | 0. | 7 | - | 0 | 0. | 0 | 0 | 0 | , | 0 | X | .2 | |
| 22 - 27 | 0 | 0 | O | | 0 | 0 | 0 | .3 | . 3 | 1 | 0. | 0 | - | 0 | 0 | 0 | X | 6. | |
| 17 - 21 | - | С | С | 0 | 0 | 0. | 1 | 2 | 9. | 7 | 1 | . 2 | . 3 | - | - | . 2 | X | 2.4 | |
| 11 - 16 | .5 | . 2 | - | 7 | 17 | 7. | . 4 | 1.2 | 1.1 | . 4 | . 3 | 7 | 1.5 | . 7 | 9. | 1.5 | X | 9.4 | |
| 7 - 10 | 1.7 | . 3 | . 2 | 2.2 | . 2 | . 2 | 7 | 1.8 | 1.2 | . 5 | . 7 | 1.2 | . 2.8 | 1.4 | 1.7 | 3.4 | X | 18.1 | |
| 4.6 | 2.2 | 9. | . 3 | .3 | 5. | 9. | 8 | 1.4 | 1,1 | . 7 | . 7 | 1:1 | 2.5 | 1.5 | 1.6 | 2,5 | X | 18.3 | |
| 1.3 | 2.0 | 8 | . 5 | 5. | 1.0 | 1.0 | 1.0 | 1,1 | 1.0 | . 5 | 9. | . 7 | 1.8 | 1.0 | 1.2 | 1.4 | X | 16.2 | |
| SPEED (KNTS) DIR. | z | NNE | . NE | ENE | E | ESE | SE | SSE | S | SSW | »s | wsw | * | WNW | WW | WNW | CALM | 34.4 | |
| | | | | | | | | | | | | | | | | | | | |

154817

TOTAL NUMBER OF OBSERVATIONS

| ALL | ALL | BOUNG (L.S. 7.) | | |
|--------------|--------------------------|---|----------------------------|---|
| FS 1965-73 | STATION NAME ALL WEATHER | 32°12', 118°11', 1200, 1779 tothill Blvd. | 351 HEIGHT ABOVE GROUND | |
| La Canada FS | | | | |
| LACA | 87a7s84 | | | 1 |

| | z | N. | Z Z | Z. | | 151 | SE | SSE | 8 | SSW | SW | WSW | W | WIW | MM | NNW | | CALM | | Data from |
|--|-------------|-----|-----|-----|-----|-----|-----|-----|------|-----|-----|-----|-----|-----|-----|------|---|-------------------|------|--|
| | | | | | | | | | | | | | | | | | | X | | |
| | | | | | | | | | | | | | | | | | | X | | th Coa |
| | | | | | | | | | | | | | | | | | | X | | South Coast Air Qua |
| | | | | | | | | | | | | | | | | | | X | | South Coast Air Quality Management District 0420 Telstar Avenue |
| | | | | | | | | | | | | | | | | | | $\langle \rangle$ | | Lity M |
| ······································ | | | | | | | | | | | | | | | | | - | Ň | | anagen |
| | | | | | | | | | | | | | | | | | | $\langle \rangle$ | | nent I |
| | | | | | | | | _ | | | | | | | | | | $\langle \rangle$ | | dstri |
| | | | | | | | | | | | | | | | | | | $\langle \rangle$ | | |
| | | | | | | | | | | | | | | | | | | X | | OTAL NUM |
| | | | | | | | | | | | | | | | | | | X | | LER OF ORS |
| | | | | | | | | | | | | | | | | | | \bigvee | | TOTAL NUMBER OF ORSERVATIONS |
| × | 6. 8 | 1.5 | 1.7 | 1.8 | 4.5 | 9.1 | 4.9 | 5.6 | 13.8 | 9.1 | 2.5 | 1,3 | 1.6 | 1.5 | 3.3 | 30.9 | | 1 | 6.66 | 74,990 |
| WIND | 2.9 | 2,3 | 2.0 | 1.8 | 2.8 | 3. | 3.0 | 3,4 | 3.9 | 4.0 | 2.7 | 2 | 3,3 | 3 | 2.9 | 3.4 | | | 3.3 | 8 |

These data are available on an hourly basis. Note:

| ALL | ALL | BOOMS (L.S.T.) | | | | |
|-------------|--------------------------|----------------|--|----------|-----|---------------------|
| 1960 - 1974 | STATION NAME ALL WEATHER | CLASS | 34°10', 117°57', 300', 621 W. Ocean Avenue | LOCATION | 251 | HEIGHT ABOVE GROUND |
| La Habre | | | | | | |
| LAH 099W | STa Toba | | | | | |

| | 3.5 1.5 | ## 19.5 1.5 | MPH OIL | | | | | | | | | | | | ¥ | WIND WIND |
|---|--|--|---------|---|---|---|---|---|---|---|---|---|---|---|------|--------------|
| 11.5 16.5 16.5 16.5 17.2 | 1.5 9.6 1.5 1.6.5 2.8 2. | 1.5 9.6 1.5 | z | | | | | | | | | | | | 3 | 1.6 |
| 9.6 14.7 16.7 17.2 1 | 9.6 16.7 16.5 2.8 2. | ### 19.6 9.6 1 | NNE | | | | | | | | | | | | 1.5 | 2.6 |
| 16.5 16.5 16.5 17.5 17.5 17.5 17.5 17.5 17.5 17.5 17 | 16.5 2.8 2.8 2.7 17.2 17. | 16.5 16.5 2.8 2.8 2.9 2.7 2. | Z. | | | | | | | | | | | | 9.6 | 1.9 |
| 16.5 2.8 2.8 1.9 1.9 1.0 1.1 1.1 1.1 1.1 1.1 1.1 1.2 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 | 16.5 2.8 2.8 2.8 1.9 1.9 1.9 1.1 2.1 1.2 1.1.2 1.1.2 1.1.2 1.1.2 1.1.2 1.1.2 1.1.2 1.1.2 1.1.2 1.1.2 1.1.2 1.1.2 1.1.2 1.1.3 1 | 16.5 2.8 | ENE | | | | | | | | | | | | 4.7 | 2,3 |
| 2.8 5.7 17.2 17.2 17.2 11.2 0.9 0.9 | 2.8 5.7 1.0 | 2.8 5.7 1.0 | | | | | | | | | | | | | 16.5 | I.8 |
| 1.0 1.0 | 5.7 | 15.7 1.9 1.9 1.9 1.1 1.2 1.7 1.2 1.7 1.2 1.7 | ESE | | | | | | | | | | | | 2.8 | 2.1 |
| 1.9 9.4 9.4 17.2 17.3 11.2 11.2 0.9 0.9 | 1.9 1.9 1.9 1.9 1.9 1.0 | 1.9 2.4 2.4 2.7 1.6 2.4 2.7 1.6 2.7 | SE | | | | | | L | | | | | | 2.1 | 2.1 |
| 5.7 17.3 11.2 11.2 0.9 0.9 | 10.2 17.3 17.3 17.5 | from South Coast Air Quality Management District 19,4 5,7 17,3 11,2 11,2 11,2 11,2 11,2 11,2 11,2 11,2 11,2 11,2 11,2 11,2 11,2 11,2 11,2 11,3 | 558 | | | | | | | | | | | | 1.9 | 3.2 |
| 17.2 17.2 11.2 11.2 0.9 0.9 | 17.2 17.3 | 17.2 17.2 17.5 11.2 17.5 17.5 17.7 | 2 | | | | | | | | | | | | 7.6 | 3.6 |
| 17.2 17.3 11.2 11.2 11.2 10.9 10.9 | 17.2 17.3 11.2 11.3 | 17.2 17.3 11.2 11.5 | SSW. | | | | | | | | | | | | 5.7 | 5.2 |
| 1.3 11.2 11.2 10.9 0.3 | 7.3 11.2 0.5 11.2 0.5 11.2 0.5 11.7 | from South Coast Air Quality Management District T.3 11.2 10.9 10.7 10.3 10.3 10.3 119.089 | SW | | | | | | | | | | | | 17.2 | 5.1 |
| 11.2 | from South Coast Air Quality Management District 10089 | 11.2 0.9 0.9 0.5 0.3 | WSW | | | | | | | | | | | | 7.3 | 5.6 |
| 0.9 | from South Coast Air Quality Management District 1040 9420 Telstar Avenue 119,089 | from South Coast Air Quality Management District El Monte, CA 91731 0.9 0.9 0.9 1.7 0.9 0.9 1.7 | * | | | | | | | | | | | | 11.2 | 4.1 |
| 1,7 | from South Coast Air Quality Management District 1040 Notes Air Avenue 119,089 | from South Coast Air Quality Management District 19420 Telstar Avenue El Monte, CA 91731 | WWW | | | | | | | | | | | | 6.0 | 30 |
| 00.3 | from South Coast Air Quality Management District 107A Nummer of Osservances 119,089 | from South Coast Air Quality Management District 9420 Telstar Avenue El Monte, CA 91731 | NW | | | | | | | | | | | | 1.7 | 1.6 |
| | from South Coast Air Quality Management District 107A Nummer of OSSEVATION 119,089 | from South Coast Air Quality Management District 194.09 El Monte, CA 91731 | WW | | | | | | | | | | | | 0.3 | 2,1 |
| 99.9 | from South Coast Air Quality Management District for Hummer of Orservances 119,089 | from South Coast Air Quality Management District 9420 Telstar Avenue El Monte, CA 91731 | | | | | | | | | | | | | | |
| 6.66 | from South Coast Air Quality Management District 9420 Telstar Avenue | from South Coast Air Quality Management District 9420 Telstar Avenue El Monte, CA 91731 | ALM | X | X | X | X | X | X | X | X | X | X | X | - | |
| | from South Coast Air Quality Management District 1974 HUMBER OF OBSERVATIONS | from South Coast Air Quality Management District for Number or Osservanows El Monte, CA 91731 | | | | | | | | - | | | | | 99.9 | 3.4 |

These data are available on an hourly basis. Note:

| | | ALL | | THE PERSON NAMED IN COLUMN 1 | | | | |
|-----|-----------------|------------------|-------------|------------------------------|-------------------|----------|----------------------------|--|
| | La Vern Airport | STATION MAJES | ALL WEATHER | CLASS | 34 05 117 47 1000 | LOCATION | 351 HEIGHT ABOVE GROUND | |
| BKT | М\$60 | 87474 6 6 | | | | | | |

| | | | | | | | MEAN |
|--|------|-----|---|---|---|------|-------|
| | 2 | | | | | | SPEED |
| | NNE | | | | | 2.6 | 4.3 |
| | 2 | | | | | 1.0 | 4.0 |
| | N. | | | | | 4.5 | 3.7 |
| | | | | | | 1.9 | 4 |
| | 151 | | | | | 11.8 | 45.54 |
| | SE | | | | | 6.1 | 27 |
| | SE | | | | | 5.0 | F.5 |
| | 50 | | | | | 1,8 | 4.2 |
| | NS. | | | | | 4.5 | 6.2 |
| 12:2 12:3 12:8 12:8 12:8 12:8 13:8 14:8 14:8 14:8 14:8 15:4 15:4 15:4 15:4 15:4 15:4 15:4 15:4 | * | | | | | 5.1 | 6.1 |
| 12:8 25:3 7:0 1:0 1:0 1:0 1:0 1:0 1:0 1:0 1:0 1:0 1 | NS. | | | | | 12.2 | 6.5 |
| 25.4 | > | | | | | 12.8 | 7.4 |
| 100 100 100 100 100 100 100 100 100 100 | I.W. | | | | | 25.3 | 7.6 |
| | * | | | | | 2.4 | 7.0 |
| | * | | | | | 7.0 | 4.5 |
| | | | | | | 1.0 | 17 |
| | 3 | | | | | | |
| | | X X | X | X | X | - | |

TOTAL NUMBER OF OBSERVATIONS opposite the state of the strict of the stri Note: These data are available on an hourly basis.

BTATION

| MEAN WIND SPEED | | | | | | | | | | | | | | | | | | |
|-----------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|-----------|-----------|
| × | 2.0 | 1.0 | 4.7 | 1.1 | 2.4 | 2.0 | 6.9 | 2.9 | 3.7 | 1.1 | 5.2 | 1.4 | 6.5 | 4.1 | 12.9 | 2.1 | 40.0 | 100.00 |
| | | | | | | | | | | | | | | | | | X | |
| | | | | | | | | | | | | | | | | | X | |
| | | | | | | | | | | | | | | | | | X | |
| | | | | | | | | | | | | | | | | | M | |
| | | | | | | | | | | | | | | | | | X | |
| | | | | | | | | | | | | | | | | | X | |
| | | | | | | | | | | | | | | | | | X | |
| > 47 | | | | | | | | | | | | | | | | | X | |
| 32-47 | | | | | | | | | | | | | | | 0.0 | | X | 0.0 |
| 4-15 16-31 32-47 > 47 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.2 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | X | 0.5 |
| 4-15 | 2.0 | 1.0 | 4.7 | 1.1 | 2.4 | 1.9 | 6.7 | 2.8 | 3.7 | 1.1 | 5.2 | 1.4 | 6.5 | 4.0 | 12.8 | 2.1 | \bigvee | 59.5 |
| SPEED MPH DIR. | z | NNR | Z | ENE | . 3 | ESE | SE | SSE | S | SSW | SW | WSW | W | WNW | MM | MNN | CALM | 40.0 59.5 |

PERCENTAGE FREQUENCY OF WIND (FROM HOURLY OBSERVATIONS) DIRECTION AND SPEED

| ALL | MONTH | ALL | BOURS (1.8.T.) | | | |
|-------------------------------|---------------|-------------|----------------|---|----------|---------------------|
| January 1959 through May 1962 | YEADS | ALL WEATHER | CLASS | 4,780' | LOCATION | PETCHT ABOUR GROUND |
| Lakeview, Oregon | STATION MAINS | ALL W | Ū | 42 ⁰ 11', 120 ⁰ 21', 4,780' | LO | 4 H 7 C 1 W 7 |

STATION

| MEAN WIND SPEED | | | | | | | | | | | | | | | | | | |
|-----------------------|------|-----|-----|-----|-----|-----|-----|-----|------|-----|-----|-----|-----|-----|-----|-----|-----------|---------------|
| × | 11.6 | 2.3 | 1.3 | 1.1 | 0.8 | 0.9 | 4.5 | 6.7 | 15.3 | 6.0 | 4.7 | 2.0 | 4.8 | 1.2 | 2.1 | 4.0 | 30.7 | 100.0 |
| | | | | | | | | | | | | | | | | | X | |
| | | | | | | | | | | | | | | | | | X | |
| | | | | | | | | | | | | | | | | | \bigvee | |
| | | | | | | | | | | | | | | | | | X | |
| | | | | | | | | | | | | | | | | | X | |
| | | | | | | | | | | | | | | | | | X | |
| >46 | | | | | | | | | | | | | | | | | X | |
| 16-30 31-46 | 0.1 | 0.0 | | | | | | | 0.1 | 0 | 0.0 | | 0.0 | | | | X | 0.2 |
| 16-30 | 4.2 | 0.2 | 0.3 | | 0.0 | | 0.5 | 6.0 | 4.1 | 0.7 | 1,3 | 0.3 | 1.3 | 0.1 | 0.1 | 0.5 | \bigvee | 14.4 |
| 4-15 | 7.0 | 1.2 | 9.0 | 9.0 | 9.0 | 0.4 | 3.7 | 7.8 | 10.8 | 0.4 | 3.2 | 1.2 | 3.5 | 0.7 | 1.8 | 2.7 | X | 7.6 47.0 14.4 |
| 1-3 | 0.3 | 1.0 | 7.0 | 0.5 | 0.1 | 7.0 | 0.5 | 1.1 | 0.4 | 1.2 | 0.2 | 0.5 | 0.0 | 0.4 | 0.1 | 0 | \bigvee | 7.6 |
| SPEED MPH DIR. | z | ZZ | Z. | ENE | . 4 | ESE | SE | SSE | S | SSW | »S | wsw | * | WNW | WW | WNW | CALM | 30.7 |

TOTAL NUMBER OF OBSERVATIONS 12,419

| ALL | | BOUND (LAT.) | | | |
|-----------|-------------|--------------|--|-----|---------------------|
| Lancaster | ALL WEATHER | CLASS CLASS | 34 37 , 110 00 , 2000 , 2000 m. Avenue 1 | ,06 | HEIGHT ABOVE GROUND |
| LAN | 87a.7.08 | | | | |

| MEAN WIND SPEED | 7.5 | - | 4.5 | 5.0 | 3.6 | 2.8 | 2.2 | 2.1 | 2.8 | 4.2 | 10.5 | 11.0 | 0,11 | 11.6 | 6.8 | 1,0 | | 6 | 9 6 |
|---|-----|-----|-----|-----|-----|-----|-----|------|-----|-----|------|------|------|------|-----|-----|------|---|--|
| M. | 1.9 | 7°7 | 5.1 | 5.2 | 4.7 | 2.7 | 3.0 | 2.9 | 1.6 | 3.6 | 11.8 | 19.0 | 10.3 | 10.0 | 2.8 | 1.0 | | | 99.8 L |
| | | | | | | | | | | | | | | | | | X | | EVATIONS |
| | | | | | | | | | | | | | | | | | X | | TOTAL NUMBER OF OBSERVATIONS |
| | | | | | | | | | | | | | | | | | X | | TOTAL NUM |
| | | | | | | | | | | | | | | | | | X | | rict |
| | | | | | | | | | | | | | | | | | X | | t Dist |
| | | | | | | | | | | | | | | | | | X | | agemer |
| | | | | | | | | | | | | | | | | | X | | ity Mar |
| | | | | | | | | | | | | | | | | | X | | r Quali |
| | | | | | | | | | | | | | | | | | X | | ast Ai |
| | | | | | | | | | | | | | | | | | X | | South Coast Air Quality Management District 9420 Telstar Avenue |
| | | | | | | | | | | | | | | | | | X | | from Sou |
| was and and and and and and and and and and | z | NN | Z | ENE | . 2 | ESE | SE | \$5E | ~ | SSW | SW | WSW | × | WHW | MW | MNM | CALM | | Data f |

These data are available on an hourly basis. Note:

| | | ALL. | DEVEL (LAT.) | | | | MEAN | 25.60 | 7.3 | 8.6 | 9.6 | 11.0 | 8,9 | 7.0 | 9•9 | 9.9 | 7.07 | 12.0 | 17.3 | 16.4 | 16.8 | 12.8 | 8.9 | 1.5 | | | 12.7 | | |
|--------------------------|----------------|--------------|-----------------------|-----|---------------------|----|------|-------|-----|-----|-----|------|-----|-----|------|-----|------|------|------|------|------|------|-----|-----|------|-----------|---------|---------------------------------------|-------|
| | | | 1 | | | | ж | | 2.2 | 2.1 | 3.2 | 5.2 | 4.1 | 1.2 | .6°0 | 0.7 | 1.5 | 2.0 | 11.4 | 25.0 | 27.9 | 8.2 | 3•3 | 1.2 | | | 10001 | 22,307 | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | X | | | 1 |
| | | | | | | | | | | | | | | | | | | | | | | | | | | X | | TOTAL NUMBER OF ORSERVATIONS | |
| | | - CARE | | | | - | | 1 | 1 | - | - | | | | | | | | | | | | | | | | | TOTAL NUA | |
| (2) | 9261 | | reet | | | - | | + | 1 | 1 | 1 | 1 | + | 1 | | | | 1 | 1 | 1 | | 1 | 1 | | | \langle | | trict | |
| Charles Coornes Allorday | 9761 - 4761 | œ | 45547N. Beech Street | | ROUND | - | | + | - | + | + | 1 | 1 | + | + | 1 | 1 | | 1 | 1 | 1 | 1 | 1 | 1 | | 1 | | nt Dis | |
| | | ALL WEATHER | 5547N. E | 35' | HEIGHT ABOVE GROUND | - | | + | + | + | + | - | + | + | + | + | + | + | 1 | - | + | - | 1 | + | / | \langle | | ınageme | |
| | | ALL | | | HEIGH | - | | + | - | - | - | + | + | + | + | + | + | - | - | 1 | | - | + | - | | | | LICY ME | |
| | | | 13', 23 | | | - | | - | - | - | - | - | - | - | - | - | - | - | - | - | | - | - | - | X | 1 | - 5 | Avenue | 7117 |
| | | STATION MAME | 34044, 118 13', 2347, | | | - | | - | - | | | | - | - | - | | | - | | - | | - | | - | X | 1 | 1000 | lstar | 40 |
| | Lancaster, Fox | | 3404 | | | - | | - | | - | | | | | - | - | | | | | | L | | | X | 1 | 4 | 9420 Telstar Avenue Fl Worte CA 01721 | 11011 |
| | Lancast | | | | | 2 | E. | _ | - | | | . 1 | - | | | | | | > | | > | | | | Ň | | f rom 6 | | • |
| | i | | | | | 35 | MEH | z | Z | Z. | ENE | - | 255 | SE | SSE | | SSW | 3.4 | WSW | > | WAW | NA. | NNW | | CALA | | Data | | |
| FOX | 129W | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

Note: These data are available on an hourly basis.

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

| ALL | намения | ALL | BOVAS (L.S.Y.) | | |
|-------------------|-------------|-------------|-------------------------|----------|---------------------|
| Las Vegas, Nevada | 872700 Mané | ALL WEATHER | 36°05', 115°10', 1,880' | LOCATION | HEIGHT ABOVE GROUND |
| | 8747104 | | | | |

| SPEED MPH DIR. | 4-15 | 4-15 16-31 32-47 | 32-47 | 247 | | | | | | | | × | MEAN WIND SPEED |
|----------------------|-----------|------------------|-------|-----|---|---|---|---|---|-----------|-----------|-------|-----------------------|
| z | 5.0 | 0.7 | 0.0 | | | | | | | | | 2.1 | |
| N Z Z | 2.1 | 6.0 | 0.0 | | | | | | | | | 3.0 | |
| w Z | 10.7 | 1.6 | 0.0 | | | | | | | | | 12.3 | |
| ENE | 2.5 | 0.1 | 0.0 | | | | | | | | | 5.6 | |
| | 4.5 | 0.1 | 0.0 | | | | | | | | | 4.6 | |
| 255 | 1.5 | 0.1 | 0.0 | | | | | | | | | 1.7 | |
| 38 | 3.9 | 9.0 | 0.0 | | | | | | | | | 4.5 | |
| \$\$E | 1.2 | 0.5 | 0.0 | | | | | | | | | 1.8 | |
| s | 6.2 | 2,4 | 0.1 | | | | | | | | | - 1 | |
| SSW | 2.2 | 1,4 | 0.0 | | | | | | | | | 3.7 | |
| S.W. | 5.6 | 2,3 | 0.1 | 0.0 | | | | | | | | 0.00 | |
| WSW | 0.7 | 0,1 | 0.0 | | | | | | | | | 0.9 | |
| * | 1.9 | 0.1 | 0,1 | | | | | | | | | 2.0 | |
| WNW | 0.8 | 0.3 | 0.0 | | | | | | | | | 1.1 | |
| WW | 2.9 | 0.7 | 0.1 | | | | | | | | | 3.7 | |
| MNM | 0.5 | 0.1 | 0.0 | | | | | | | | | 0.7 | |
| | | | | | | | | | | | | | |
| CALM | \bigvee | X | X | X | X | X | X | X | X | \bigvee | \bigvee | 35.2 | |
| 35.2 | 52.2 | 12.0 | 0.5 | 0.0 | | | | | | | | 100.0 | |

DATA FROM NATIONAL CLIMATIC CENTER FEDERAL BUILDING - ASHEVILLE, N.C., 28801

32,928

TOTAL NUMBER OF OBSERVATIONS

-131-

| ALL | MOMTH | ALL | HOURS (L.S.T. | | | | |
|---------------------------------|---------------------|-------------|---------------|---|----------|----|-------------------|
| LEMOORE, CALIFORNIA NWSED 61-70 | STATION MAM E TEARS | ALL WEATHER | CLASS | 36 ⁰ 20', 119 ⁰ 57', 240' | LOCATION | ,6 | CZICOW MACON FIRE |

23110

| | _ | | | | | | | | | | | | | | _ | | | |
|-------------------------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|-----------|-----------|
| MEAN WIND SPEED | 9 | 5.4 | 4.5 | 3.9 | 3.7 | 4.0 | 4.7 | 5.2 | 5 1 | 4.6 | 4.2 | 4.1 | 3.4 | 4.0 | 5.6 | 7.1 | | 4.7 |
| × | 16.0 | 4.7 | 1 9 | 1.4 | 2.4 | 2.4 | 3.0 | 3.4 | 3.7 | 1.6 | 1.5 | 2.6 | 5.5 | 5.5 | 10.9 | 18.8 | 14.8 | 100.0 |
| VI 95 | | | | | | | | | | | | | | | | | X | |
| 48 - 55 | | | | | | | | | | | | | | | | | X | |
| 41 - 47 | | | | | | | | | | | | | | | | | X | |
| 34 - 40 | | | | | | | | | | | | | | | | | \bigvee | |
| 28 - 33 | | | | | | | | | 0 | | | | | | 0. | 0. | X | 0. |
| 22 - 27 | C | | | | | | | 0. | 0 | 0 | 0. | 0. | 0 | | 0 | 1. | X | .1 |
| 17 - 21 | . 2 | O | | | | | 0 | 0. | 0. | 0 | 0 | 0. | 0. | 0. | - | .3 | X | 9. |
| 11 - 16 | 1.8 | . 2 | 0 | 0 | 0 | 7 | 1 | . 2 | .3 | - | - | 1 | .1. | | 9. | 2.5 | X | 6.2 |
| 7 - 10 | 5.3 | 1.3 | . 3 | -2 | . 2 | . 3 | .5 | . 7 | 9. | . 2 | . 2 | . 2 | 2 | .5 | 2.6 | 6.2 | X | 31.9 19.5 |
| • • | 5.6 | 1.8 | 80 | 9. | 6 | 6 | 1.1 | 1.2 | 1,2 | . 4 | . 4 | . 7 | 1.8 | 2.6 | 5.0 | 6.9 | X | |
| | 3.1 | 1.3 | 8 | . 7 | 1.3 | 1.2 | 1.2 | 1.3 | 1.6 | 80 | 6. | 1.5 | 3.3 | 2,3 | 2.6 | 2.8 | X | 26.8 |
| SPEED (KNTS) DIR. | z | NN. | , Z | ENE | 3 | ESE | SE | SSE | S | SSW | SW | WSW | W | WNW | WW | NNW | CAUA | 14.8 |
| | | | | | | | | | | | | - | | | | | | |

FEDERAL BUILDING - ASHEVILLE, N.C., 28801 DATA FROM NATIONAL CLIMATIC CENTER

95872

TOTAL NUMBER OF OBSERVATIONS

| | | 9 | STATION HAMS | | | YEARS | | VEARS | | |
|----------------------|------|-------------|------------------|---------|----------|---------------------|--------|-------|---|----------------|
| | 1 | | | | ALL WE | ALL WEATHER | | | 1 | |
| | | | | 370421, | | 1210481, | 453 | | | BOURS (L.B.Y.) |
| | I | | | | 700 | LOCATION | | | | |
| | ı | | | | HEIGHT A | HEIGHT ABOVE GROUND | Q Z | | | |
| SPEED MPH DIR. | 4-15 | | 16-31 32-47 > 47 | 2 47 | | | | | | × |
| z | 1.0 | 0.2 | 0.0 | | | | | | | 7.2 |
| NNE | 0.3 | 0.2 | 0.0 | | | | | | | 0.5 |
| ž | 9.2 | 1,2 | 0.0 | | | | | | | 10.4 |
| ENE | 1.1 | 0.1 | | | | | | | | 1.2 |
| | 5.1 | 0.1 | | | | | | | | 5.2 |
| ESE | 0.4 | 0.0 | | | | | | | | 7.0 |
| SE | 1.9 | 0.0 | | | | | | | | 1.9 |
| SSE | 0.2 | 0.0 | | | | | | | | 0.2 |
| S | 1.8 | 0.1 | | | | | | | | 1.9 |
| SSW | 1.1 | 0.3 | 0.0 | | | | | | | 1.5 |
| SW | 10.4 | 2.0 | 0.0 | 0.0 | | | | | | 12.4 |
| WSW | 3.4 | 9.0 | | | | | | | | 0.4 |
| * | 17.8 | 4.1 | 0.0 | | | | | | | 21.9 |
| WWW | 3.6 | 1.6 | | | | | | | | 5.2 |
| WW | 6.8 | 2.0 | | | | | | | | 8.7 |
| NNW | 0.2 | 0.1 | 0.0 | | | | | | | 0.0 |
| | | | | | | | | | | |
| CALM | X | \setminus | \rangle | | | | | | | 000 |

DATA FROM NATIONAL CLIMATIC CENTER FEDERAL BUILDING - ASHEVILLE, N.C., 28801

0.0

TOTAL NUMBER OF OBSERVATIONS 43,692

100.0

-133-

| ALL | Beenta A 1 1 | ALL | | | | WIND SPEED | 0.4 | 5.5 | 4.8 | 0.4 | 3.8 | 3.0 | 2.8 | 3.6 | 5.9 | 0.4 | 2.4 | L. 4 | 6.4 | 4.1 | 3.4 | 5.6 | | 4.2 |
|-------------------------------|-----------------|-------------|-------------------|----------|---------------------|----------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|-----|-----|-----|-----------|-----------|
| | | - | | | | * | 3.0 | 5.9 | 0.4 | 4.5 | 5.3 | 3.1 | 5.6 | 1.8 | 2.8 | 5.1 | 17.3 | 18.6 | 15.0 | 8.4 | 2.1 | 2.3 | 4.4 | 100 |
| 972 | | | | | | | | | | | | | | | | | | | | | | | X | |
| March 1 | | 1 | | ì | 1 | | | | | | | | | | | | | | | | | | X | |
| April 1971 through March 1972 | YEARS | | | | | | | | | | | | | | | | | | | | | | \bigvee | |
| 971 th | | | | | | | | | | | | | | | | | | | | | | | X | |
| pril 1 | | | , 490 | | Q.V. | 16- | 0 | 0,1 | 0.1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.1 | \bigvee | 0.3 |
| A | 00000 | ALL WEATHER | 10 461 | LOCATION | HEIGHT ABOVE GROUND | 11-16 | 0 | 0.4 | 0.2 | 0 | 0 | 0 | 0 | 0 | 0 | 0.1 | 0.2 | 0,1 | 0,1 | 0 | 0 | 0.2 | X | 1.3 |
| | | ALL W | 370 41, 1210 46', | L00 | HEIGHT A | 7-11 | 0.4 | 0.1 | 0.3 | | 0.3 | 0 | 0 | 0.1 | 0.1 | 0.4 | 2.3 | 1.9 | 2.3 | ħ.0 | 0.1 | 0.4 | X | 6.3 |
| | | | 370 | | | 5-7 | 9.0 | 0.5 | 6.0 | 1.5 | 1.3 | 0.4 | 0.2 | 0 | 0.5 | 0.0 | 5.3 | 6.2 | 5.0 | 1.2 | 0.3 | 0.3 | X | 24.1 24.9 |
| re LLL | STATION MAISE | | | | | 3-5 | 0.5 | 0.7 | 6.0 | 6.0 | 1:1 | 0.7 | 9.0 | 7.0 | 0.5 | 1.4 | 7.4 | 5.8 | 3.9 | 1.3 | 0.5 | 0.2 | X | 24.1 |
| Livermore LLL | STATE | | | | | 33 | 1.3 | 6.0 | 1.4 | 1.7 | 2.4 | 8 | 1.7 | 1.5 | 80 | 2 | 4.4 | 7.7 | 3.4 | 1.8 | 1.1 | 1.0 | \bigvee | 82.8 |
| ı | | • | | • | | 1.6 | 0.0 | 0.2 | 0.2 | | 0.5 | 0 | 0.1 | 0.1 | 0.2 | | 7.0 | 0.2 | 0.3 | 0.1 | 0.1 | 0.1 | X | 0.0 |
| | | | | | | SPEED MPS DIR. | z | NNE | ž | ENE | | ESE | SE | 55E | | SSW | 3W | WSW | * | WHW | MW | NNW | CALM | 4.4 |
| | STATION | | | | | | | | - | | | | | | | | | | | | | | | |

| ALL | BORTH | ALL | Boves (L.s.T.) | | | |
|--------------------------------|-------------|-------------|----------------|-------------------------|----------|---------------------|
| Livermore 10 SSE, LLL Site 300 | STATON NAME | ALL WEATHER | CLASS | 370 38', 1210 30', 515' | LOCATION | HEIGHT ABOVE GROUND |

| MEAN WIND SPEED | | | | | | | | | | | | | | | | | | |
|-----------------------|------|------|------|------|------|--------------|------|------|------|------|------|-----------------|-------|------|-------|-------|------|-------------------|
| × | 1.64 | .55 | 1.31 | 1.08 | 1.06 | .97 | 1.64 | 1.78 | 1.57 | 1.59 | 2.66 | 36.22 | 14.98 | 6.30 | 11.52 | 15.12 | | 66.66 |
| | | | | | | | | | | | | | | | | | X | |
| | | | | | | | | | | | | | | | | | X | |
| | | | | | | | | | | | | | | | | | X | |
| | | | | | | | | | | | | | | | | | X | |
| | | | | | | | | | | | | | | | | | X | |
| 20- | .02 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | O | ₇₀ . | 0 | 0 | .02 | 18 | X | .26 |
| 15.1- | 90' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 90. | 0 | .02 | 1,41 | .03 | 0 | .10 | .72 | X | 2.40 |
| 10.1- | 60. | .01 | .01 | .01 | | ₀ | . 13 | .11 | 90. | .11 | .37 | 16.22 | 2.09 | .22 | 2.07 | 3.36 | X | 26.19 39.75 24.90 |
| 5.1- | 777 | .01 | .03 | .01 | .02 | .16 | .30 | .32 | | | 1.03 | 15.25 | 9.33 | 2.78 | 04.4 | 5.16 | X | 39.75 |
| 2.1- | 98. | 444 | 1.04 | .59 | .52 | .42 | .82 | 06. | 83 | .85 | .98 | 2.91 | 3.08 | 2.63 | 4.31 | 5.01 | X | 26.19 |
| 2.0 | 17 | 60. | .23 | 74. | .52 | .35 | .39 | .45 | .45 | . 29 | .26 | .39 | .45 | 29. | .62 | 69. | X | 6,49 |
| SPECO MPS DIR. | z | N.K. | ž | ENE | | ESE | SE | SSE | S | SSW | SW | WSW | 3 | WHW | MW | MNM | CAUA | |

Data from Lawrence Livermore Laboratory

total hours or ossevanous based on } hour averages

7,061

| ALL | 報の申す数 | ALL | HOURS (L.S. | | | | |
|-------------------------------|--------------|-------------|-------------|-------------------------|----------|-----|---------------------|
| October 1972 - September 1973 | TEABS | ALL WEATHER | CLASS | 37°40', 121°33', 1,722' | LOCATION | | HEIGHT ABOVE GROUND |
| Livermore, LLL Site 300 WOP | STATION HAMS | ALL WI | 13 | 370401, 12 | 100 | 30, | HEIGHT A |

| MPH DIR. | z | N.Z. | Z | ENE | ESE | SE | SSE | S | SSW | SW. | WSW | > | WNW | WW | MNM | CALM | |
|-------------------------------|---|------|---|-----|---------|----|-----|---|-----|-----|-----|---|-----|----|-----|-----------|------|
| eH., | - | w | | _ | | - | - | | > | | * | | * | | 2 | = | - |
| 0-5 | | | | | | | | | | | | | | | | X | 10.9 |
| 6-8 | | | | | | | | | | | | | | | | \bigvee | 12.4 |
| 9-12 | | | | | | | | | | | | | | | | \bigvee | 16.8 |
| 13-20 | | | | | | | | | | | | | | | | X | 25.9 |
| 13-20 21-26 27-32 33-40 41-52 | | | | | | | | | | | | | | | | X | 15.0 |
| 27-32 | | | | | | | | | | | | | | | | X | 10.6 |
| 33-40 | | | | | | | | | | | | | | | | X | 6.4 |
| 41-52 | | | | | | | | | | | | | | | | X | 1.9 |
| | | | | | | | | | | | | | | | | X | |
| | | | | | | | | | | | | | | | | X | |
| | | | | | | | | | | | | | | | | X | |
| βR | | | | | | | | | | | | | | | | | 6.66 |
| MEAN WIND SPEED | | | | | | | | | | | | | | | | 14.2 | |

TOTAL NUMBER OF OBSERVATIONS

| 72.488 | | | | | |
|-----------------------------------|-------------|-------|----------------------|----------|-----|
| LONG BEACH, CALIFORNIA WBAS 49-72 | ALL WEATHER | CLASS | 33049', 118009', 43' | LOCATION | 201 |

| MEAN WIND SPEED | 4.5 | 4 6 | 4.6 | 5 4 | 4 7 | 4.9 | 4 9 | 6.3 | 7.0 | 7.7 | 9.9 | 7.5 | 8.3 | 7.2 | 6.3 | 5.4 | | 4.9 |
|-------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|-----------|-------|
| × | 3.6 | 1 3 | 2.5 | 2.3 | 4.7 | 3.0 | 4.4 | 3.1 | 9.2 | 4.6 | 3.6 | 2.1 | 9.8 | 8.9 | 10.0 | 3.5 | 23.4 | 100.0 |
| 99 A1 | | | | | | | | | | | | | | | | | \bigvee | |
| 48 - 55 | • | | | | | | | | | | | | | | | | \bigvee | |
| 41 - 47 | | | | | | | | | | | | | | 0 | | | \bigvee | 0. |
| 34 - 40 | | | | | | | 0 | | o | | | 0. | 0 | | 0 | | X | 0. |
| 28 - 33 | 0 | | 0 | | 0 | | | | | | | 0. | | 0. | 0 | 0. | X | 0. |
| 22 - 27 | 0 | 0 | О | 0. | 0 | | 0. | 0 | 0. | 0 | 0. | 0. | 0. | 0. | 0. | 0. | X | .2 |
| 17 - 21 | 0, | 0 | 0 | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | . 2 | .1 | | 0. | X | 9. |
| 11 . 16 | 7. | 0. | 1. | 7. | - | 1. | 7. | . 2 | 8. | 9. | .3 | . 3 | 2,1 | 1.1 | ω. | .1 | X | 6.8 |
| 7 - 10 | 4. | . 2 | .3 | ۳, | 5 | . 4 | . 7 | 1.1 | 4.2 | 2.3 | 1.4 | .7 | 4.1 | 3.4 | 2.7 | 9. | X | 23.2 |
| 4.6 | 1.9 | . 7 | 1:1 | 1,3 | | 1.7 | 2.1 | 1.4 | 3,3 | 1.4 | 1.5 | ω. | 2.7 | 3.6 | 4.6 | 2.0 | X | 32.3 |
| 1.3 | 1.3 | .5 | 1.0 | 9. | 1.7 | 8. | 1.5 | 4. | 6. | .3 | .5 | .2 | .7 | .7 | 1.7 | ∞. | X | 13.5 |
| SPEED (KNTS) DIR. | z | NNE | Z. | ENE | 14 | ESE | SE | SSE | S | SSW | »s | WSW | * | WNW | WW | WNN | CALM | 23.4 |
| | | | | | | | | | | | | | | | | | | |

a a a b a a w a b a a w a w a a

DATA FROM NATIONAL CLIMATIC CENTER FEDERAL BUILDING - ASHEVILLE, N.C., 28801

163549

TOTAL NUMBER OF OBSERVATIONS

-137-

| ALL | MONTH | ALL | HOURS (L.S.T. | | | | |
|--------------------------------|--------------|-------------|---------------|----------------------|----------|-----|---------------------------|
| | YEARS | | | | | | |
| 49-69 | | ALL WEATHER | CLASS | | LOCATION | | Civilo Co Linea Friedrich |
| NWSED | | ALL | | , 26 | | | F |
| CALIFORNIA | STATION NAME | | | 33°48', 118°03', 26' | | | |
| LOS ALAMITOS, CALIFORNIA NWSED | 18 | | | 3304 | | 121 | |

93106

| SyrEtp 1.3 4.6 7.10 11.16 17.21 22.27 28.33 34.40 41.47 48.55 256 % % DNA DNA DNA DNA DA | MEAN WIND SPEED | 4.0 | | 4.4 | | | | | 5.1 | | 6 9 | | 7.6 | 9 | 6.5 | 4.8 | 4.4 | | 4.8 |
|--|-------------------------|-----|------|-----|-----|------|-----|-----|-----|-----|-----|------|-----|-----|-----|-----|-----|-----------|-------|
| 1.3 4.6 7.10 11.16 17.21 22.27 23.33 34.40 41.47 48.55 2.3 1.6 .5 .1 .0 .0 .0 2.3 1.2 .5 .2 .1 .0 .0 .0 3.0 2.2 .6 .2 .1 .0 .0 .0 3.1 1.7 .6 .1 .0 .0 .0 4.1 1.7 .6 .1 .0 .0 .0 5.1 1.7 .6 .1 .0 .0 .0 1.0 2.3 3.1 .7 .0 .0 .0 1.1 2.3 3.1 .7 .0 .0 .0 1.2 3.6 7.0 2.4 .1 .0 .0 1.3 2.6 1.1 .2 .0 .0 1.4 1.7 1.4 .5 .1 .0 .0 2.3 2.6 1.1 .2 .0 .0 2.5 8 27.8 22.3 6.4 .7 .7 .2 .0 .0 .0 2.5 8 27.8 22.3 6.4 .7 .7 .2 .0 .0 3.6 3.7 3.7 3.7 3.7 3.7 3.7 3.7 3.7 3.7 3.7 3.7 3.7 3.7 3.7 3.7 3.7 4.7 4.7 5.7 5.7 5.7 5.7 5.7 5.7 5.8 27.8 22.3 6.4 .7 .7 .2 .0 .0 .0 5.8 27.8 22.3 6.4 .7 .7 .7 .7 .7 .7 .7 5.8 27.8 27.8 27.3 6.4 .7 .7 .7 .7 .7 .7 .7 | × | 4.5 | 2.4 | 5.9 | 3.5 | .6.1 | 2.6 | 4.5 | 2.5 | 6.3 | 7.2 | 14.6 | 5.1 | 5.1 | 4.0 | 6.3 | 2.6 | 16.8 | 100.0 |
| 1.3 4.6 7.10 11.16 17.21 22.27 23.33 34.40 41.47 23.31 1.6 17.21 22.27 23.33 34.40 41.47 23.31 1.6 1.7 2.2 2 | 17 56 | | | | | | | | | | | | | | | | | X | |
| 1.3 4.6 7.10 11.16 17.21 22.27 23.33 34.40 41.1 22.3 1.6 1.2 22.27 23.33 34.40 41.1 22.3 1.6 1.2 2.27 23.33 34.40 41.1 2.3 2.2 2.3 2 | 48 - 55 | • | | | | | | | | | | | | | | | | \bigvee | |
| 1.3 4.6 7.10 11.16 17.21 22.27 28.33 34. 2.3 1.6 .5 .1 .0 .0 2.1 2.1 .9 .1 .0 .0 1.3 1.2 .5 .2 .1 .1 .0 3.0 2.2 .6 .2 .1 .0 .0 2.1 1.7 .6 .1 .0 .0 .0 1.0 2.3 1.5 .3 .0 .0 .0 1.0 2.3 3.1 .7 .0 .0 .0 1.1 2.2 2.1 2.4 .1 .0 .0 1.2 3.6 7.0 2.4 .1 .0 .0 1.3 2.4 2.1 .4 .5 .1 .0 .0 1.4 1.7 1.4 .5 .1 .0 .0 2.3 2.6 1.1 .2 .0 .0 2.3 2.6 1.1 .2 .0 .0 2.5 8 27.8 22.3 6.4 .7 .2 .0 2.5 27.8 27.8 27.3 6.4 .7 .2 .0 3.6 7.7 7.7 7.7 .7 .7 .7 3.7 7.7 7.7 7.7 7.7 .7 3.7 7.7 7.7 7.7 7.7 7.7 7.7 7.7 4 5 7.7 7.7 7.7 7.7 7.7 7.7 7.7 5 7.7 7.7 7.7 7.7 7.7 7.7 7.7 7.7 5 7.7 7.7 7.7 7.7 7.7 7.7 7.7 7.7 5 7.7 7. | 41 - 47 | | | | | | | | | | | 0. | | | | | | \bigvee | 0. |
| 1.3 4.6 7.10 11.16 17.21 22.27 23. 2.3 1.6 .5 .1 .0 .0 2.8 2.1 .9 .1 .0 .0 1.3 1.2 .5 .2 .1 .0 3.0 2.1 2.2 .6 .1 .0 2.1 2.3 1.5 .1 .0 .0 1.0 2.3 3.1 .7 .0 .0 1.0 2.3 3.1 .7 .0 .0 1.1 2.3 3.1 .7 .0 .0 1.2 3.6 1.1 .1 .0 3.3 3.4 3.1 .7 .0 .0 4 1.4 1.4 .5 .1 .0 5.3 2.6 1.1 .0 .0 5.3 2.7 2.3 6.4 .7 .2 | 34 - 40 | | | | 0. | | | 0. | | | | | | | | | | \bigvee | 0. |
| 1.3 4.46 7.10 11.16 17.21 22.3 1.6 1.5 1.2 1.0 | 28 - 33 | | | | | 0. | | 0. | 0. | | | 0. | 0. | 0. | | 0. | | \bigvee | 0. |
| 2.3 1.6 .5 .1 .1 .1 .1 .1 .2 .2 .30 .1 .1 .1 .2 .30 .2 .30 .2 .30 .2 .30 .30 .30 .30 .30 .30 .30 .30 .30 .30 .30 .30 .30 .30 .30 .30 .30 .300 | 22 - 27 | | | 0. | .1 | 0. | | | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | X | .2 |
| 1.3 4.4 7.10 11. 2.3 1.63 2.8 2.19 2.8 27.8 22.3 6 | 17 - 21 | 0 | 0. | 0. | .1 | .1 | 0. | 0. | 0. | 0. | 0. | .1 | .1 | .1 | 0. | 0. | 0. | X | .7 |
| 1.3 2.3 2.8 2.8 2.8 1.2 1.3 1.2 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 | 11 - 16 | ۲. | 0. | .1 | .2 | .2 | .1 | .1 | .1 | е. | .7 | 2.4 | 80 | ı, | 4. | .2 | 0. | X | 6.4 |
| 25.8 | 7 - 10 | .5 | е. | 6. | .5 | 9. | 4. | 9. | 4. | 1.5 | 3.1 | 7.0 | 2.1 | 1.4 | 1.4 | 1.1 | 4. | X | 22.3 |
| | 4.6 | 1,6 | 6. | 2.1 | 1.2 | 2.2 | 1.0 | | 6. | | 2.3 | 3.6 | 1.4 | 1.7 | 1.4 | 2.6 | 1.0 | X | 27.8 |
| SPEED NIR. NIR. NIR. NIR. NIR. NIR. NIR. NIR. | 1.3 | 2,3 | 1.1 | 2.8 | 1.3 | 3.0 | 1.2 | 2.1 | 1.0 | 2.1 | 1.0 | 1.5 | 7. | 1.4 | ω. | 2.3 | 1.1 | X | 25.8 |
| | SPEED (KNTS) DIR. | z | Z.Z. | ž | ENE | ш | ESE | SE | SSE | s | SSW | SW | WSW | * | WHW | WW | WNW | CALIA | 16.8 |

0746464146897584

DATA FROM NATIONAL CLIMATIC CENTER FEDERAL BUILDING - ASHEVILLE, N.C., 28801

171926

TOTAL NUMBER OF OBSERVATIONS

-138-

| ALL | 80818 | ALL | BOVAS (L.B.1 | | | | |
|---|--------------|-------------|--------------|-----------------------|----------|-----|---------------------|
| Los Angeles, CA. WBAS January 1947 thru June 1965 | BIATION HAME | ALL WEATHER | CLASS | 33,56', 118,23', 121' | LOCATION | 201 | HEIGHT ABOVE GROUND |

| SPEED Knts. | 1-3 | 4-10 | 11-21 | 4-10 11-21 22-27 28-40 | 28-40 | 017 | | | | | | W. | MEAN WIND SPEED |
|----------------|------|-----------|-----------|------------------------|-------|-----|---|---|---|---|---|-------|-----------------------|
| z | 1.0 | 1.3 | 0.3 | 0.0 | 0.0 | | | | | | | 2.7 | 6.0 |
| NNE | 1.0 | 1.5 | 0.1 | 0.0 | 0.0 | | | | | | | 2.6 | 6.4 |
| N. | 1.6 | 5.6 | 0,1 | 0.0 | 0.0 | | | | | | | 4.2 | 7 9 |
| ENE | 1.8 | 3.1 | 0.1 | 0.0 | | | | | | | | 5.0 | 7.6 |
| a | 2.5 | 4.2 | 0.1 | 0.0 | | | | | | | | 8.9 | 7.6 |
| ESE | 1.8 | 3.0 | 0.1 | | | | | | | | | 6.4 | 4.7 |
| SE | 1.8 | 2.5 | 0.1 | 0.0 | | | | | | | | 4.5 | 9.4 |
| SSE | 1.0 | 1.5 | 0.1 | 0.0 | 0.0 | | | | | | | 2.6 | 6.7 |
| 8 | 0.0 | 1.3 | 0.1 | 0.0 | | | | | | | | 2.3 | 7.6 |
| SSW | 0.8 | 1.4 | 0.2 | 0.0 | 0.0 | | | | | | | 2.4 | 5.6 |
| S.W. | 1.3 | 4.1 | 0.7 | 0.0 | | | | | | | | 6.1 | 9.9 |
| WSW | 1.6 | 13.7 | 4.1 | 0.0 | 0.0 | | | | | | | 19.4 | 00 |
| * | 1.8 | 11.5 | 4.2 | 0.1 | 0.0 | | | | | | | 17.8 | ω, |
| WNW | 1.1 | 3.1 | 0.5 | 0.0 | 0.0 | | | | | | | 9.4 | 9 |
| WW | 0.0 | 1,0 | 0.2 | 0.0 | 0.0 | | | | | | | 2.1 | 5.0 |
| NNW | 0.8 | 0.9 | 0.5 | 0.1 | 0.0 | | | | | | | 2.3 | 7.3 |
| | | | | | | | | | | | | | |
| CALM | X | \bigvee | \bigvee | X | X | X | X | X | X | X | X | 8.6 | 5.8 |
| 9.6 | 21.7 | 56.7 | 11.5 | 0.3 | 0.0 | | | | | | | 100.0 | |

DATA FROM NATIONAL CLIMATIC CENTER

FEDERAL BUILDING - ASHEVILLE, N.C., 28801

153,295

TOTAL NUMBER OF OBSERVATIONS

| ALL | Beatti | ALL | BOOMS (LR.T.) | | | | |
|-------------------|--------------|-------------|---------------|-------------------------|----------|-----|---------------------|
| 8/56 - 12/76 | 72489 | ALL WEATHER | CLASS | 434 S. San Pedro Street | LOCATION | 851 | HEIGHT ABOVE GROUND |
| Los Angeles CAPCD | STATION NAME | | | 34 03', 118 14', | | | |
| CAP 075W | 37.47.004 | | | | | | |

| NET THE PER PER PER PER PER PER PER PER PER PE | z | NNE | Na. | | | ESE | Se | \$5E | 3 | 35W | SW | WSW | * | WIW | MW | NNW | CALM | | Data from South |
|--|-------------|-----|------|-----|-----|-----|-----|------|-----|-----|------|--------|-----|-----|-----|-----|---------------|------|---|
| | | | | | | | | | | | | | | | | | \bigvee_{V} | | South Coast Air Quality Management District |
| | | | | | | | | | | | | | | | | | | | Guality |
| | | | | | | | | | | | | | | | | | X | | Manageme |
| | | | | | | | | | | | | | | | | | | | nt Distr |
| | | | | | | | | | | | | | | | | | X | | |
| - | | | | | | | | | | | | | | | | | X | | TOTAL NUMBER OF OBSERVATIONS |
| | | | | | | | | | | | | | | | | | X | | BSERVATIONS |
| × | ₽. 4 | 7.4 | 14.8 | 1.6 | 6.2 | 1.7 | 7.9 | 1.6 | 9.3 | 5.2 | 26.3 | ر ش | 8.1 | 0.3 | 3.5 | 0.8 | ز | 6.66 | 09ר יושר |
| WIND | 3.9 | 3.6 | 3.9 | 4.0 | 3.7 | 7.7 | 4.4 | 4.6 | 4.5 | 9.9 | 6•9 | 7.7 | 6.5 | 5.9 | 9 | 6.7 | | 5.3 | .0 |

Note: These data are available on an hourly basis.

| ALL | Market Annual Control | BOOM (L.E.T.) | | | | |
|------------------|-----------------------|---------------|---------------------------------------|----------|-----|---------------------|
| | VELABO | | | | | |
| 1963 - 1974 | | ALL WEATHER | 855 N. Vermont | LOCATION | 45, | HEIGHT ABOVE GROUND |
| Los Angeles C.C. | STATION MARK | | 34°05', 118°18', 500', 855 N. Vermont | | | |
| LACC | 20,7100 | | | | | |

| WIND STED | 0.4 | 4.5 | 4.2 | 3° & | 1.1 | 4.6 | 4.1 | 4.5 | 4.6 | 2.6 | 6.5 | 6.5 | 7.4 | 4.9 | 6.8 | 6•9 | | 5.3 | 25 |
|----------------|-----|-----|------|------|-----|-----|-----|------|-----|-----|------|------|-----|-----|-----|-----|------|-------|---|
| ak. | 4.4 | 7.4 | 10.6 | 6.3 | 5.0 | 3.4 | 5.9 | \$•€ | 4.5 | 6.7 | 17.8 | 16.5 | 5.7 | 1.6 | 2.4 | 2.2 | , | 100.0 | 96,105 |
| | | | | | | | | | | | | | | | | | X | | EVATIONS |
| | | | | | | | | | | | | | | | | | X | | TOTAL NUMBER OF ORSERVATIONS |
| | | | | | | | | | | | | | | | | | X | | TOTAL NUM |
| | | | | | | | | | | | | | | | | | X | | |
| | | | | | | | | | | | | | | | | | X | | South Coast Air Quality Management District 9420 Telstar Avenue El Monte, CA 91731 |
| | | | | | | | | | | | | | | | | | X | | agement |
| | | | | | | | | | | | | | | | | | X | | cy Man |
| | | | | | | | | | | | | | | | | | X | | Qualti enue 1731 |
| | | | | | | | | | | | | | | | | | X | | st Air tar Av |
| | | | | | | | | | | | | | | | | | X | | South Coast Air Qua 9420 Telstar Avenue El Monte, CA 91731 |
| | | | | | | | | | | | | | | | | | X | | from Sou 942 |
| William Street | z | N. | 2 | ENE | | ESE | 38 | SSE | | SSW | SV. | WSW | * | WAW | ¥ | MNN | CALM | | Data fr |

These data are available on an hourly basis. Note:

| ALL | ALL | MONEY (L.C.T.) | |
|---|-------------|--|--|
| PLX 1.0s Angeles NWS: 8/1/50 - 6/30/64 1.0s Angeles NWS: 8/1/50 - 6/30/64 | ALL WEATHER | 34 ^O 00', 118 ^O 12', 290 Federal Bldg, 90012 | |

| NHE 10.2 5.6 11.5 5.6 11.5 5.6 12.3 5.2 13.1 4.8 1 | 지 등 등 등 등 등 등 등 등 등 등 등 등 등 등 등 등 등 등 등 | | 10 11-16 | 7-10 11-16 17-21 22-27 28-33 | 22-27 | 28-33 | 34-40 41-47 | 41-47 | 48-55 | 99 | aft. | SPEED |
|--|--|---------|----------|------------------------------|---------|-------|-------------|-----------|------------|----------|-------|-------|
| 11.5 12.3 12.3 12.3 13.1 | | | | | | | | | | | 7.4 | 6.2 |
| # 8.4 11.5 12.3 12.3 13.1 | # # # # # # # # # # # # # # # # # # # | | | | | | | | | | | |
| 11.5 | , a | | | | | - | | | | | 8.4 | 9.9 |
| 11.5 | , 2 55 | | | | | | | | | | | |
| from South Coast Air Quality Management District 197,07 | 12.5 | | | | | | | | | | 11.5 | 5,6 |
| 12.3 | | - | | | | | | | | | | |
| from South Coast Air Quality Management District 10000 melatar Avenue 177.07 | SE | | | | | | | | | | 12.3 | 5.2 |
| from South Coast Air Quality Management District TOTAL NUMBER 60 08587AND048 127.07 | .5E | | | | | | | | | | | |
| from South Coast Air Quality Management District TOTAL NUMBER OF OBSERVATIONS 127.07 | 8 | | | | | | | | | | 13.1 | 4.8 |
| from South Coast Air Quality Management District Norw Number of Observation 177, 0450 Management District Norw Number of Observation 177, 07 | SW | | | | | | | | | | | |
| from South Coast Air Quality Management District 1010 Management Distri | I.W. | | | | | | | | | | 5.1 | 6.3 |
| from South Coast Air Quality Management District TOTAL NUMBER 00 08887AND048 127.07 | 18W | | | | | | | | | 1 | | |
| from South Coast Air Quality Management District TOTAL NUMBER 00 09889780000 177.07 | * | | | | | | | | | | 34.4 | 6.7 |
| from South Coast Air Quality Management District North Weems of Observation 177,07 | NW. | | | | | | | | | | | |
| from South Coast Air Quality Management District TOTAL NUMBER OF OSSERVATIONS 127.0 | 3 | | | | | | | | | | 7.7 | 6.2 |
| from South Coast Air Quality Management District Tota Number of Observations 127.0 | WW | | | | | | | | | | | |
| from South Coast Air Quality Management District Outon malatar Arenne | | | | | | | | | | | | |
| from South Coast Air Quality Management District Tota Number of Observations 127.0 | X 100 100 100 100 100 100 100 100 100 10 | X | X | X | X | X | X | X | X | X | 1 | |
| from South Coast Air Quality Management District Tord Number of Observations | | | | | | | | | | | 6.66 | 6.0 |
| | from | Coast A | ir Quali | ty Man | agement | Dist. | rict | TOTAL NUM | BER OF OBS | EVATIONS | 127.0 | 77 |

These data are available on an hourly basis. Note:

| - | Boorn All | B00 85 (L.E.T.) | | | |
|--------------------|---------------|------------------------|----------|-----|---------------------|
| 1971 - 1974 | ALL WEATHER | 11408 La Cienega Blvd. | LOCATION | 30, | HEIGHT ABOVE GROUND |
| Los Angeles No. 76 | 87A7 for bans | 33°55',118°18', 50', | | | |
| LENX 118W | • | | | | |

| WIND WIND SPEED | 3.5 | 5.6 | 2.5 | 2.6 | 2,7 | 2.9 | 0 | 7 | 0 , | 7 | 0 - | 700 | 9- | 404 | 4.93 | 3.6 | | | 0 |
|-----------------------|-----|-----|-----|--------------|-----|-----|-----|-----|-----|-----|-------|-----|-----|-----|-------|-----|-----------|------|--|
| × | 9.1 | 3.6 | 5.2 | 5.4 | 7.3 | 70 | 3.2 | 0 0 | 2 | 4.0 | Cad i | 1 | 7 | 400 | 20.00 | 1.6 | | 3000 | 30,240 |
| | | | | | | | | | | | | | | | | | X | | RYATIONS |
| | | | | | | | | | | | | | | | | | X | | TOTAL NUMBER OF OBSERVATIONS |
| | | | | | | | | | | | | | | | | | X | | TOTAL NUM |
| | | | | | | | | | | | | | | | | | X | | rict |
| | | | | | | | | | | | | | | | | | \langle | | t Dist |
| | | | | | | | | | | | | | | | | | \langle | | agemen |
| | | | | | | | | | | | | | | | | | \langle | | ty Mar |
| | | | | \downarrow | _ | | | | L | | | | | | | | X | | r Quali |
| | | 1 | | | | | | | | | | | | | | | \langle | | star A |
| | | | | | | | | | | | | | | | | | V. | | South Coast Air Quality Management District 9420 Telstar Avenue |
| | | | | | | | | | | | | | | | | | | | |
| MAH DIR. | 2 2 | 300 | 2 2 | - | 151 | SE | 358 | 2 | SSW | SW | WSW | * | WHW | MM | MNW | | 3 | | Data from |

These data are available on an hourly basis. Note:

| ALL | ALL | BOURS (1.8.T.) | | | | |
|---|-------------|----------------|---|----------|-----|---------------------|
| Los Angeles - Normandie 1/1/55 - 12/31/67 | ALL WEATHER | CLASS | 340 03', 1180 18', 100 3520 S. Normandie Avenue | LOCATION | 40" | HEIGHT ABOVE GROUND |
| NOR 026W | | | | | | |

| NHE | SPEED MPH | 1-3 | 4-6 | 7-10 | 7-10 11-16 17-21 | | 22-27 | 28-33 | 34-40 | 41-47 | 34-40 41-47 48-55 | 26 | ył. | MEAN WIND SPEED |
|--|--------------|-----|---------|--------|------------------|--------|--------|--------|-------|-----------|-------------------|----------|-------|-----------------------|
| 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.5 | z | | | | - | | | | | | | | Ιď | |
| # 8.8 8.8 8.5 9.7 9.8 SNS | | | | | | | | | | | | 1.3 | 4.1 |
| from South Coast Air Quality Management District Flow South Coast Air Quality Management District Flow South Coast Air Quality Management District Flow South Coast Air Quality Management District Flow South Coast Air Quality Management District Flow Coast Air Quality Management District Management Di | N. | | | | | | | | | | | | 8.8 | 4.2 |
| from South Coast Air Quality Management District 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 | ENE | | | | | | | | | | | | 0.7 | 4.7 |
| from South Coast Air Quality Management District Film Monte, CA 91731 Film Monte, CA 91731 | | | | | | | | | | | | | .8.5 | 4.7 |
| from South Coast Air Quality Management District Flow South Coast Air Quality Management District Flow South Coast Air Quality Management District Flow South Coast Air Quality Management District Flow South Coast Air Quality Management District Flow Coast Air Quality Management District Management Distri | ESE | | | | | | | | | | | | 0.8 | |
| from South Coast Air Quality Management District Flow Coast Air Quality Management District M | SE | | | | | | | | | | | | 6.4 | 4.4 |
| from South Coast Air Quality Management District 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 | SSE | | | | | | | | | | | | 0.3 | 4.0 |
| from South Coast Air Quality Management District 100.0 100.0 100.0 100.0 100.0 100.0 100.0 | | | | | | | | | | | | | 4.9 | 4.1 |
| from South Coast Air Quality Management District 100.0 from South Coast Air Quality Management District 100.0 El Monte, CA 91731 | SSW | | | | | | | | | | | | 9.0 | 4.6 |
| from South Coast Air Quality Management District Total Number of Osternoons 95,822 | SW | | | | | | | | | | | | 16.3 | 6.7 |
| from South Coast Air Quality Management District roll Number of Osservations 95,824 | WSW | | | | | | | | | | | | 2.0 | 6.9 |
| from South Coast Air Quality Management District roral Number of Osservation 100.0 | * | | | | | | | | | | | | 30.0 | 7.3 |
| from South Coast Air Quality Management District rora Number of Osservation 9420 Telstar Avenue El Monte, CA 91731 | WAW | | | | • | | | | | | | | 0.9 | 5.5 |
| from South Coast Air Quality Management District roma Nummer of Osservations 95,824 Bill Monte. CA 91731 | WW | | | | | | | | | | | | 7.8 | ۰ |
| from South Coast Air Quality Management District roral Number of Osservations 95,824 | MNM | | | | | | | | | | | | 0.4 | 5.8 |
| from South Coast Air Quality Management District TOTAL NUMBER OF ONSHIVATIONS 95,824 | | | | | | | | | | | | | | |
| from South Coast Air Quality Management District 9420 Telstar Avenue El Monte. CA 91731 | CALA | X | X | X | X | X | X | X | X | X | X | X | - | |
| from South Coast Air Quality Management District Ford Number or OSSEVATIONS 9420 Telstar Avenue El Monte, CA 91731 | | | | | | | | | | | | | 100.0 | |
| | | | uth Coa | st Air | Quali | ty Man | agemen | t Dist | rict | TOTAL NUM | BER OF OBS | RYATIONS | 95,82 | 4 |
| | | EJ | Monte, | CA 9 | 1731 | | | | | | | ŀ | | |

Note: These data are available on an hourly basis.

| ALL | ALL | Bouns [L.C. 7.) |
|-------------------------------------|-----|--|
| Los Angeles - Pico. 1/1/55-12/31/71 | ALL | 34° 03', 118° 22', 100, 5769 West Pico Blvd. 40' HEIGHT ABOVE GROUND |
| PIC 025W | | |

| WIND SPEED | 0.0 | 0 | 2 | α C | 3 7 | 0 | 70 | שוע | n C | 7 | 0 | 9 | 6 7 | 10 | 77 | 7 7 | | | | 4.6 | 66 |
|---------------|-----|-----|-----|--------|-----|-----|----|-----|--------|-----|------|-----|-----|-----|------|-----|---|-------------------|---|-------|--|
| at. | 6.9 | 2.7 | 5.7 | .5 | 17 | 7.0 | uα | 000 | 7 7 7 | 6.3 | 10.1 | 0.7 | 0 | 200 | יוני | i m | | | - | 0.001 | TOTAL NUMBER OF OBSERVATIONS 142,099 |
| | | | | | | | | | | | | | | | | | | X | 1 | ℤ. | ATIONS |
| | | | | | T | T | | T | | | | | | | | | l | X | | | R OF OBSERV |
| | | | | | | İ | | | | | | | | | l | T | | X | | | TAL NUMBE |
| | | | | | | | | | | | | | | | | | | X | 1 | | |
| | | | | | | | | | | | | | | | | | | X | 1 | | South Coast Air Quality Management District 9420 Telstar Avenue |
| | | | | - | | | - | | | | | | | | | | | X | 1 | | gement |
| | | | | | | | | | - | | | | | | | | - | X | | 1 | / Manae |
| | | | | | | - | - | | | | | | | | - | | | X | 1 | | juality iue |
| | | | | | - | | | - | | | | | _ | | - | | | X | - | | Air G |
| | | | | | | | | | | | | | | | | | | X | - | | South Coast Air Qua |
| | | | | | | | | | | | | | | | | | | $\langle \rangle$ | | | |
| (MPH) | z | NNE | Z. | - FAC | | ESE | SE | 358 | 5 | SSW | SW. | WSW | W | WNW | NW | NNW | | CALM | | | Data from |

These data are available on an hourly basis. Note:

| ALL BOOM ILET? | MEAN WIND SPEED | 2.4 | 2 5 | 1.9 | 9.0 | 2.0 | 4.0 | 4.3 | 4.5 | 3.8 | 5.1 | 5.1 | 5.2 | 3.5 | 3.8 | ν. α | 3.0 | | 4.3 | 84 |
|--|-----------------------|-----|-----|-----|-----|-----|-----|-----|------|-----|------|------|-----|-----|-----|---------|-----|-----------|------|--|
| | N. | 1.3 | 7 | 1.0 | 1.0 | 1.9 | Ω. | 6.1 | 12.2 | 8.3 | 17.8 | 15.5 | 5.1 | 3.0 | 4.1 | 7.7 | 4.4 | | 8.66 | TOTAL NUMBER OF OBSERVATIONS 16,884 |
| | | | | | | | | | | | | | | | | | | \bigvee | | ERYATIONS |
| Rd. | | | | | | | | | | | | | | | | | | \bigvee | | LIER OF OSS |
| 27/56-9/9/61 Tals 1215 San Fernando Rd. | | | | | | | | | | | | | | | | | | X | | TOTAL NUM |
| 2/27/56-9/9/61 R . 1215 San Feri | | | | | | | | | | | | | | | | | | X | | rict |
| 1215 8 | | | | | | | | | | | | | | | | | | X | | t Dist |
| ALL WEATHER CLASS THE CLASS 14 COCATION 1 1 251 HEIGHT ABOVE CAROUND | | | | | | | | | | | | | | | | | | \bigvee | | agemen |
| ALL WEATHER CLASS 14 COCATION 251 HEIGHT ABOVE CRE | | | | | | | | | | | | | | | | | | X | | ty Man |
| 1180 | | | | | | | | | | | | | | | | | | X | | Quali enue 1731 |
| R ALL 340 06', 118 ⁰ 14' | | | | | | | | | | | | | | | | | | X | | st Air tar Av CA 9 |
| S SPRR states was | | | | | | | | | | | | | | | | | | X | | th Coa O Tels Monte, |
| Los Angeles SPRR | | | | | | | | | | | | | | | | | | X | | om Sou 942 El |
| Los | (MPH) | z | ZNZ | Z. | ENE | . 4 | 353 | 38 | SSE | | SSW | S.W. | WSW | * | WHW | MM | NOW | CALM | | Data from South Coast Air Quality Management District 9420 Telstar Avenue El Monte, CA 91731 |
| SOP O68W Brane | | | | | | | | | _ | | | | | | | | | | | |

Note: These data are available on an hourly basis.

| ALL | ALL | HOURS (L.C.T.) |
|-------------------|------------------------|---|
| Los Angeles, UCLA | STATEM MAN ALL WEATHER | 34° 04', 118° 27', 430', 405 Hilgard Avenue 50' Hildary Arbove GROUND |

| HANGE BY TO THE | H NHE BH E BH E BH S | | | MEAN WIND |
|---|---|-----|----|--------------|
| | N N K E N N K N N K N N N N N N N N N N N N N N | | 21 | 4.9 |
| 1 1 1 1 1 1 1 1 1 1 | 8 | | | ,5 3,4 |
| A C C C C C C C C C | First Firs | | 9 | |
| 1 | 8 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 | | 7 | 9 |
| 1.00.00 1.00.0 | 5.5. 5.5. 5.5. 5.5. 5.5. 5.5. 5.5. 5.5 | | 7 | |
| 20.0 10.0 | \$32 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ | | 2 | |
| 4 % % % % % % % % % % % % % % % % % % % | \$ 5.5 | | 2 | _ |
| 7.8° 7.8° 7.8° 8.9° 8.9° 8.9° 8.9° 8.9° 8.9° 8.9° 8 | S S S S S S S S S S S S S S S S S S S | | 2 | H |
| 10.2 10.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3 | S SW W W W W W W W W W W W W W W W W W | | 9 | H |
| 13. 8 3. 6 3. 6 3. 6 3. 6 3. 6 3. 6 3. 6 3. 6 | BW WWW WWW WWW WWW WWW WWW WWW WWW WWW | | 16 | H |
| 2.0 2.0 3.6 3.6 3.6 4.8 4.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 | W W W W W W W W W W W W W W W W W W W | | 21 | .8 4.4 |
| 2.0 2.0 3.6 3.6 3.8 4.8 4.8 4.8 4.8 4.8 4.8 4.8 4.8 4.8 4 | WYWW NAW CALM | | 9 | |
| 3.6 | WINY NAW NEW CLIM | | 2 | |
| 3.6 | NAW NAW CALM | | 2 | |
| 7.8 7.8 7.8 7.8 | CALLA | | | 3.3 |
| 8*66 | CALIA | | | .8 4.0 |
| 8.66 | Court | | | |
| - | | XXX | | |
| | | | 66 | 3.5 |

| | | SHAN MANAGE | Carrie Carrie and Carr | | | | | YEARS | | | | | MONTH |
|----------|-------|-------------|--|-----------|-----------|---------------------|-----|-------|---|---|-------|-------|-----------------------|
| | | | | | ALL WE | WEATHER | | | | | | | ALL |
| | ı | | | | CL | CLASS | | | | ı | | NO. | HOURS (L.R.T.) |
| | | | | | 35 feet | reet | | | | 1 | | | |
| Mean | | | | | HEIGHT AL | HEIGHT ABOVE GROUND | 0,7 | | | | | | |
| MPH DIR. | 1.5 | 5.0 | 9.5 | 15.0 | 21.0 | 34.5 | | | | | | × | MEAN WIND SPEED |
| z | 1.3 | 3.0 | 1.3 | 9.0 | 4.0 | 0.1 | | | | | | 9.9 | |
| N N | 1.0 | 2.4 | 1.4 | 9.0 | 0.1 | | | | | | - | 5,4 | |
| ž | 1.2 | 2.8 | 0.5 | 0.1 | 0.0 | | | | | | | 4.6 | |
| ENE | 7.0 | 1.3 | 0.2 | | | | | | | | | 2,2 | |
| ¥ | 9.0 | 1.1 | 0.0 | | | | | | | | | 1.8 | |
| ESE | 0.8 | 1.6 | 0.2 | 0.0 | | | | | | | | 5.0 | |
| SE | 1.1 | 2.0 | 0.4 | 0.4 | 0,1 | 0.0 | | | | | | 4.1 | |
| SSE | 0.8 | 1.2 | 0.3 | 0.2 | 0.1 | 0.0 | | | | | | 2.7 | |
| S | 1.4 | 2.0 | 0.3 | 0.1 | 0.1 | 0.0 | | | | | | 0 17 | _1 |
| SSW | 0.1 | 2.3 | 0.2 | 0.1 | 0.0 | | | | | | | 3.5 | |
| SW | 1.2 | 2.4 | 0.2 | 0.0 | 0.0 | | | | | | | 3 | |
| WSW | 9.0 | 1.3 | 0.7 | 0.4 | 0.2 | 0 | | | | | | 3.1 | |
| * | 1.0 | 1.7 | 4.8 | 8,0 | 4.8 | 2.7 | | | | | | 23.0 | |
| WHW | 0.5 | 1.0 | 4.7 | 8.4 | 6.7 | 1.9 | | | | | | 23.1 | |
| WW | 6.0 | 1.1 | 2.2 | 1,3 | 0.4 | 0.0 | | | | | | 5.9 | |
| MNM | 9.0 | 1.0 | 0.8 | 0.4 | 0.4 | 0.2 | | | | | | 3.5 | |
| CALM | | | | \rangle | X | \rangle | X | | X | X | X | 0.3 | = |
| | | 9 | 9 | () | 1 | 1 | | | | | 1 | | |
| 0.3 | 174.6 | 28.1 | 18.2 | 50.0 | 13.3 | 1.6 | | _ | | | NOTE: | 100.0 | |

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8,496

TOTAL NUMBER OF OBSERVATIONS

DATAFROM Pacific Gas and Electric Company

| 33° 55', 118° 12', 115', , 11220 Long Beach Blvd. 35' HEIGHT ABOVE GROUND |
|---|
| 351 HEIGHT ANOVE GROUND |
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These data are available on an hourly basis. Note:

| ALL BESSETS ALL ALL TO SEE SELECT. | MEAN WIND SPTED | 6.3 | 2.4 | 2.5 | 3.2 | 3.5 | 3.8 | 4.1 | 3.0 | 3.4 | 4.3 | 6.9 | 6.7 | 3.1 | 3.5 | 5.8 | 5.7 | | 5.0 | |
|--|-----------------------|-----|-----|-----|-----|-----|-----|-----|------|-----|-----|------|-----|-----|-----|-----|------|-----------|------|--|
| | * | 6.8 | 4.3 | 6.5 | 3.9 | 5.7 | 3.3 | 4.0 | 3.3 | 3.0 | 7.3 | 18.3 | 9.5 | 3.2 | 1.9 | 4.8 | 13.9 | - | 7.66 | TOTAL NUMBER OF ORSERVATIONS 93,360 |
| | | | | | | | | | | | | | | | | | | \bigvee | | ERVATIONS |
| | | | | | | | | | | | | | | | | | | X | | uen or ons |
| Rd. | | | | | | | | | | | | | | | | | | X | | TOTAL NUM |
| 1963-1974 Tase 8 23720 Malibu Rd. | | | | | | | | | | | | | | | | | | \bigvee | | rict |
| 1963-1974 | | | | | | | | | | | | | | | | | | X | | t Dist |
| | | | | | | | | | | | | | | | | | | X | | South Coast Air Quality Management District 9420 Telstar Avenue El Monte, CA 91731 |
| 34° 02', 118° 42', 10', 10', 10', 10', 10', 10', 10', 10 | | | | | | | | | | | | | | | | | | X | | ty Man |
| , 1180 | | | | | | | | | | | | | | | | | | X | | Quali enue 1731 |
| 40 02 1 | | | | | | | | | | | | | | | | | | X | | st Air tar Av CA 9 |
| 3. 88 stated mass | | | | | | | | | | | | | | | | | | X | | South Coast Air Qua 9420 Telstar Avenue El Monte, CA 91731 |
| Malibu F. S. 88 | | | | | | | | | | | | | | | | | | X | | |
| Mali | HAM | z | NNE | ž | ENE | | 155 | 38 | \$58 | 2 | SSW | SW. | WSW | * | WHW | WW | NNW | CALM | | Data from |
| MALC 104W | | | | | | | | | | | | | | | | ٦ | | | | Н |

Note: These data are available on an hourly basis.

HOURS (L.R.T.) ALL ALL HEIGHT ABOVE GROUND 39-72 WEATHER LOCATION CLASS ALL MCCLELLAN AFB CALIF/SACRAMENTO 98 121024 38040', 131 23208

| MEAN WIND SPEED | 7.5 | 5.5 | | 4 | 4.1 | 5.0 | 7.0 | 8 | 8.2 | 7.6 | 9 | 5.2 | | 5 | 7.6 | 9.3 | | 6.3 |
|-------------------------|-----|-----|-----|-----|-----|-----|------|------|------|-----|-----|-----|-----|-----|-----|-----|------|-------|
| × | 5.9 | 1,3 | 1.2 | 9. | 2.2 | 3,1 | 13.4 | 15.7 | 17.1 | 5.6 | 3.9 | 1.0 | 1.9 | 1.7 | 5,3 | 5.3 | 14.9 | 100.0 |
| % A1 | | | | | | | | | | | | | | | | | X | |
| 48 - 55 | • | | | | | | 0 | | | | | | | | | | X | 0. |
| 41 - 47 | | | | | | | 0. | 0. | 0. | | | | | | 0. | 0. | X | 0. |
| 34 - 40 | 0. | 0. | | | | | 0. | 0 | 0 | 0. | 0. | | 0 | | 0. | 0. | X | - |
| 28 - 33 | 0 | 0. | 0 | 0. | | | 0. | 1 | 0. | 0. | 0. | 0. | | 0. | 0. | .1 | X | .3 |
| 22 - 27 | 1 | 0. | 0 | 0. | | 0 | - | . 2 | - | 0 | 0. | 0 | 0 | 0 | 7 | .2 | X | 1.0 |
| 17 - 21 | .3 | 0. | 0 | 0. | 0. | 0. | . 2 | 9. | . 7 | .1 | .1 | 0. | 0. | 0. | . 2 | 4. | X | 2.6 |
| 11 - 16 | . 7 | F | 0 | 0. | 0. | - | 1.0 | 2.4 | | 6. | . 4 | 7. | 0. | .1 | 9. | 6. | X | 10.0 |
| 7 - 10 | 1.6 | . 2 | . 2 | 7 | .3 | 9. | 5.7 | 6.7 | | 2.1 | 1.2 | . 2 | . 3 | 4 | 1.5 | 1.5 | X | 29.5 |
| 4.6 | 1.7 | . 5 | .5 | . 2 | 6 | 1.4 | 4.6 | 4.3 | 4.5 | 1,7 | 1,3 | . 4 | 8 | . 7 | 1.6 | 1.4 | X | 26.3 |
| 1.3 | 1.5 | . 5 | 9 | . 2 | 1.0 | 6. | 1.8 | 1.4 | 2.0 | 8 | 6. | . 4 | 80 | 9. | 1.2 | 00 | X | 15.4 |
| SPEED (KNTS) DIR. | z | NNE | Z. | ENE | E | ESE | SE | SSE | S | SSW | Sw. | WSW | Α. | WHW | WW | WNW | CALM | 14.9 |

MUMMHOOMNOMOM I

283884

| 1974 | ALL WEATHER | 11.488 | 42 ⁰ 22', 122 ⁰ 52', 1,312' | LOCATION | |
|------------------|-------------|--------|---|----------|--|
| Medford, Oregon | ALL W | 0 | 42 ⁰ 22', 12 | 100 | |
| 24225 STATION | | | | | |

BOURS (L.B.T.) 8 obs. ALL

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| 2.2 5.4 2.1 0.4 4.2 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0 | knts. | 1-3 | 9-4 | 7-10 | 7-10 11-16 17-21 | 17-21 | >21 | | | | | | × | WIND |
|---|-------|------|------|------|------------------|-------|------|-----------|-----------|---|---|---|-------|------|
| 0.8 | z Z | 2.2 | 4.9 | - | 77 0 | | | | \dagger | | | | 11.1 | 5.3 |
| 0.7 | ZZZ | 0.8 | 2.8 | 0.5 | | | | | | | | | 4.2 | 4.9 |
| 0.7 0.7 0.1 0.5 0.9 0.1 0.0 0.0 0.8 2.0 0.2 0.5 0.0 0.5 1.5 0.2 0.1 0.6 1.3 0.3 0.1 0.0 0.7 1.5 0.2 0.1 1.8 2.1 0.2 0.1 1.9 3.4 2.6 1.5 0.0 1.0 3.6 2.1 0.2 1.1 3.4 2.6 1.5 0.0 1.2 3.4 2.6 1.5 0.0 1.3 3.4 2.6 1.5 0.0 1.4 3.6 2.1 0.2 0.1 1.5 3.6 2.1 0.2 0.1 1.6 3.6 2.7 0.6 0.0 1.7 3.1 12.7 18.6 23.0 | ž | 0.7 | 1.7 | 0.2 | 0.0 | | | | | | | | 2.6 | 7.4 |
| 0.5 0.9 0.1 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 | W Z | 0.7 | 0.7 | 0.1 | | | | | | | | | 1.5 | 4.1 |
| 0.5 1.7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0 | | 0.2 | 6.0 | 0.1 | | | | | | | | | 1.4 | 4 |
| 0.8 | ESE | 0.5 | 1.7 | | 0.0 | 0.0 | | | | | | | 2.3 | 4.5 |
| 0.5 1.5 0.3 0.7 0.2 0.1 1.2 1.3 0.2 0.1 0.0 0.7 1.5 0.2 0.1 0.0 1.2 2.1 1.2 0.4 1.3 3.4 2.6 1.0 0.0 1.6 3.8 2.7 0.6 3.0 4.7 8.1 12.7 18.6 23.0 14.9 38.1 13.5 4.6 0.7 0.1 | SE | 8.0 | 2.0 | 0.2 | 0.5 | 0.3 | 0.0 | | | | | | 3.9 | 9 |
| 1.2 3.0 0.7 0.5 0.0 0.0 0.1 0.0 0.1 0.0 0.1 0.0 0.1 0.0 0.1 0.0 0.1 0.0 0.1 0.0 0.1 0.0 0.1 0.0 0.1 0.0 0.1 0.0 0.1 0.0 0.0 | SSE | 0.2 | 1.5 | 0.3 | 0.7 | 0.2 | 0.1 | | | | | | 3.4 | 7.9 |
| 0.6 1.3 0.3 0.1 0.0 | s | 1.2 | 3.0 | 0.7 | 0.5 | 0.0 | | | | | | | 5.5 | 5. |
| 0.7 1.5 0.2 0.1 1.8 2.1 1.2 0.4 1.9 3.4 2.6 1.0 0.0 1.0 3.8 2.7 0.6 3.0 4.7 8.1 12.7 18.6 23.0 14.9 38.1 13.5 4.6 0.7 0.1 | SSW | 9.0 | 1.3 | 0.3 | 0,1 | 0.0 | | | | | | | 2.3 | 5 |
| 1.2 2.1 1.2 0.4 1.5 0.0 1.6 1.6 1.6 1.6 1.6 1.6 1.6 1.6 1.6 1.6 | WS. | 0.7 | | 0.2 | 0,1 | | | | | | | | 2.5 | 4.6 |
| 1.2 2.1 1.2 0.4 1.3 3.4 2.6 0.0 0.9 3.6 2.1 0.2 3.0 4.7 8.1 12.7 18.6 23.0 14.9 38.1 13.5 4.6 0.7 0.1 | WSW | 80.0 | 1.5 | 0.5 | 0.1 | | | | | | | | 5.6 | 4 |
| 1.3 3.4 2.6 1.0 0.0 1.6 1.6 0.0 1.6 1.6 0.0 1.6 1.6 1.6 1.6 1.6 1.6 1.6 1.6 1.6 1.6 | * | 1.2 | 2.1 | 1.2 | 4.0 | | | | | | | | 6.4 | 2 |
| 1.6 3.8 2.7 0.6 0.9 3.6 2.1 0.2 3.0 4.7 8.1 12.7 18.6 23.0 14.9 38.1 13.5 4.6 0.7 0.1 | WWW | 1.3 | 3.4 | 5.6 | 1.0 | 0.0 | | | | | | | 8.2 | 9.0 |
| 0.9 3.6 2.1 0.2 3.0 4.7 8.1 12.7 18.6 23.0 14.9 38.1 13.5 4.6 0.7 0.1 | WW | 1.6 | 3.8 | 2.7 | 9.0 | | | | | | | | 8.7 | 6.1 |
| 3.0 4.7 8.1 12.7 18.6 23.0 28.1 14.9 38.1 13.5 4.6 0.7 0.1 | MNN | 6.0 | 3.6 | 2.1 | 0.2 | | | | | | | | 9.9 | 5.0 |
| 14.9 38.1 13.5 4.6 0.7 0.1 | AVR | 3.0 | 4.7 | 8.1 | 12.7 | 18.6 | 23.0 | | | | | | | |
| 14.9 38.1 13.5 4.6 0.7 0.1 | CALM | X | X | X | X | X | X | \bigvee | X | X | X | X | 28.1 | 4.1 |
| | 28.1 | 14.9 | 38.1 | 13.5 | 9.4 | 0.7 | 0.1 | | | | | | 100.0 | |

FEDERAL BUILDING - ASHEVILLE, N.C., 28801 DATA FROM NATIONAL CLIMATIC CENTER

TOTAL NUMBER OF OBSERVATIONS

2,920

| ALL | BOAT A | ALL | MOURE (LA.T.) |
|---------------|--------------|-------------|---|
| Milpitas Site | STATION HAME | ALL WEATHER | 36°04', 121°19', 1,200' Location 10' HEIGHT ABOVE GROUND |

STATION.

| 4-7 8-12 | > 31 | 11,21 | 7.95 | 60 17 | 0.94 | 0.29 | 0.53 | 2,03 | 11, 42 | 2.00 | 2,18 | 86.0 | 0.01 | η . 0 | 1,80 | 2.27 | 8.10 | 21 00 | 00.75 |
|----------|----------------------|-------|------|-------|------|------|------|------|--------|------|------|------|------|--------------|------|------|------|-------|-------|
| 7-4 | .2 13-18 19-24 25-31 | | | | | | | | | | | | | | | | | | < / / |
| | Z-17 | | | | | | | | | | | | | | | | | | X / / |

50,028

HOURS (L.S.T.) ALL ALL YEARS 47-72 HEIGHT ABOVE GROUND ALL WEATHER LOCATION CLASS 32052', 117088', 472' MIRAMAR, CALIFORNIA NWSED 22

93107

| | | | | | | | | | | | | | | | | | | |
|-------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|-----|-----|-----------|-------|
| MEAN WIND SPEED | 3.6 | 3.7 | 4.0 | 4.3 | 4,3 | 4.1 | 4.0 | 4.9 | 5.2 | 5.6 | 5.7 | 5.7 | 6.2 | 6.4 | 5.6 | 4.5 | | 4.4 |
| × | 4.3 | 1.7 | 2,3 | 3.0 | 9.6 | 2.9 | 2.7 | 2.6 | 4.6 | 4.4 | 5,1 | 4.2 | 10.5 | 11.0 | 9.8 | 4.8 | 16.5 | 100.0 |
| N 36 | | | | | | | | | | | | | | | | | \bigvee | |
| 48 - 55 | | | | | | | | | | | | | | | | | X | |
| 41 - 47 | | | | | | | | | | | | | | | | | X | |
| 34 - 40 | | | | | | | | | | | | | | | | | X | |
| 28 - 33 | | | | | | | | | 0. | | | | | 0. | | | X | 0 |
| 22 - 27 | 0. | 0. | 0. | 0. | 0. | | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | | | X | 0 |
| 17 - 21 | 0 | 0. | 0. | 0. | 0. | 0. | | 0. | 7. | 0. | 0. | 0. | .1 | 0. | 0. | 0. | X | . 3 |
| 11 - 16 | 0 | 0. | 7. | .1 | | 0. | 0. | .1 | .2 | | .3 | . 2 | . 5 | .7 | .5 | .1 | X | 3.2 |
| 7 - 10 | .3 | . 1 | . 2 | .2 | 1.1 | . 3 | .3 | 5. | 6. | 1.2 | - | 1,3 | 3.9 | 4.4 | 2.9 | .7 | X | 19.8 |
| 4.6 | 1.7 | 9. | • | 1.3 | 4.7 | 1.3 | | 1.1 | 1.7 | | | 1.7 | 3.9 | 3.9 | 3.5 | 1.9 | X | 32.7 |
| 1.3 | 2.3 | 1.0 | 1,3 | 1,3 | 3.7 | 1,3 | 1,3 | 1.0 | 1.7 | 1.3 | 1.4 | 1.1 | 2.1 | 1.9 | 2.8 | 2.1 | \bigvee | 27.5 |
| SPEED (KNTS) DIR. | z | NNE | Z. | ENE | E | ESE | SE | SSE | S | SSW | SW. | WSW | * | WHW | NW | WNW | CALM | 16.5 |
| | _ | | | | | | | | | | | | | | _ | | | |

| ALL WEATHER CLASS 15345 S. F. 301 HEIGHT ABOVE GROUND | Mission Blvd. | MMM WING WING WING WING WING WING WING WING |
|--|---------------------------------|---|
| 15345 S. F. 301 HEIGHT ABOVE GROUND | | |
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| HAPE N N N N N N N N N N N N N N N N N N N | | |
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| HE B W B B B B B B B B B B B B B B B B B | | |
| 18 t | | |
| 15.1 5.2 5.2 5.3 5.3 5.4 5.4 5.4 5.4 5.4 5.4 5.4 5.4 5.4 5.4 | 900 | +H |
| 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 | 9.0 | + |
| 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 | | - |
| 355 8 W824 8 W824 | 12. | |
| % SSW | 16. | - |
| ASS ASS | 7. | _ |
| AS AS | 3. | cu |
| | 5 | |
| WSW | 2. | 7 |
| * | 1. | |
| WNW | 1. | - |
| NW . | 9 | 6.4 11.0 |
| NAW . | 12. | - |
| | | - |
| Calif | X | |
| | .66 | 99.9 5.0 |
| Data from South Coast Air Quality Management District ro | TOTAL NUMBER OF OBSERVATIONS 70 | 70,114 |

Note: These data are available on an hourly basis.

| | YEARS |
|----------------------|-------|
| ALL WEATHER | |
| CLA\$\$ | |
| 37°38', 120°58', 95' | |
| LOCATION | |

BTATION

ALL ALL MOUNS (LE.T.)

| MEAN WIND SPEED | | | | | | | | | | | | | | | | | | |
|-----------------------|------|-----|-----|------|-----|-----|-----|--------|-----|-----|-----|-----|-----|-----|-----|------|-----------|-----------|
| ak . | 10.6 | 6.1 | 1,1 | 1.3 | 1.1 | 5.0 | 4.6 | 7.6 | 1.2 | 1.4 | 0.6 | 1.0 | 1.4 | 9.0 | 9.9 | 27.7 | 10.5 | 100.0 |
| | | | | | | | | | | | | | | | | | X | |
| | | | | | | | | | | | | | | | | | X | |
| | | | | | | | | | | | | | | | | | \bigvee | |
| | | | | | | | | | | | | | | | | | X | |
| | | | | | | | | | | | | | | | | | X | |
| | | | | | | | | | | | | | | | | | X | |
| | | | | | | | | | | | | | | | | | X | |
| 244 | | | | | | 0.0 | 0.0 | 0.0 | | | | | | | | | X | 0 |
| 32-47 | | | | | 0.0 | 0.0 | 0.1 | 0.1 | 0.0 | | | | | | | 0.0 | X | 0 |
| 4-15 16-31 32-47 > 47 | 0.3 | 0.1 | | | 0.0 | 9.0 | 1.2 | 2.3 | 0.2 | 0.1 | 0.0 | | | 1.2 | 1,4 | 2.9 | X | 10.4 |
| 4-15 | 10.3 | 0.9 | 17 | 2 | - | 7.3 | • | r O | C | | 0.6 | | | 2 | 20 | 24.7 | X | 78 0 10 4 |
| MPH MPH DIR. | z | ZXZ | ž | S.E. | | ESE | SE | SSE | , | SSW | AS. | WSW | * | WHW | MM | MNW | CALLA | 10 |

DATA FROM NATIONAL CLIMATIC CENTER FEDERAL BUILDING – ASMEVILLE, N.C., 28801

TOTAL NUMBER OF OBSERVATIONS

15,321

| ALL | ALL | Boyad (L.S.T.) | | |
|--------------------------------|-------------|------------------------------|----------|---------------------|
| April 1945 thru September 1958 | ALL WEATHER | 118 ⁰ 11', 2,764' | LOCATION | HEIGHT ABOVE GROUND |
| Mojave, CA | | 35,03, | | Ŧ |

| MPH Pir. | 3-7 | 8-12 | | 13-20 21-30 31-40 | 31-40 | V 40 | | | | | | * | WIN |
|-------------|------|-----------|-----------|-------------------|-------|------|---|---|---|---|---|-------------|-----|
| z | 2.8 | 0.7 | 0.1 | 0.0 | | | | | | | | 3.6 | 4 |
| EX. | 0.8 | 0.3 | 0.1 | 0.0 | | | | | | | | 0 | L |
| 37 | 2.4 | 1.5 | 9.0 | 0.1 | 0.0 | | | | | | | 27 | L |
| ENE | 1.3 | 0.8 | 0.2 | 0.0 | 0.0 | | | | | | | 70 | |
| - | 2.6 | 0.8 | 0.2 | 0.0 | | | | | | | | 200 | |
| ESE | 0.5 | 0.1 | 0.0 | | | | | | | | | | L |
| 3.8 | 1.1 | 0.1 | 0.0 | | | | | | | | | 7 | |
| SSE | 0.4 | 0.1 | 0.0 | | | | | | | | | 0 | |
| S | 1.1 | 0.5 | 0.2 | 0.0 | | | | | | | | 1 | |
| SSW | 0.7 | 1,1 | 6.0 | 0,1 | 0.0 | | | | | | | 0 | |
| SW | 1.9 | 3.5 | 5.6 | 0.2 | | 0.0 | | | | | | 0 | |
| WSW | 1.1 | 1.8 | 1.3 | | 0.0 | | | | | | | 7 | |
| * | 1.9 | 3,5 | 3.7 | 1.4 | 0.2 | 0.0 | | | | | | α C - | L |
| WWW | 1.0 | 3.5 | 2.6 | ۰ | 0.4 | 0.1 | | | | | | 16.3 | |
| N. | 2.4 | 2.9 | 5.9 | 1,9 | 0.2 | 0.0 | | | | | | 13.3 | |
| MWW | 1,0 | 0.9 | 6.0 | 0.2 | 0.0 | | | | | | | а. | |
| | | | | | | | | | | | | | |
| CALIA | X | \bigvee | \bigvee | X | X | X | X | X | X | X | X | 21.6 | |
| 21.6 | 23.0 | 22.2 | 24.5 | 7.8 | 0 | - | | | | | | | |

DATA FROM NATIONAL CLIMATIC CENTER FEDERAL BUILDING - ASHEVILLE, N.C., 28801

TOTAL NUMBER OF OSSERVATIONS

TIONS

32,291

| ALL | ALL | A0488 (L.8.T.) |
|---------------------------------------|-------------|---|
| MONTAGUE CAL FAA/SISKIYOU CNY AP48-65 | ALL WEATHER | CLASS 410461, 1220281, 26351 LOCATION 201 HEIGHT ABOVE GROUND |

24259

| MEAN WIND SPEED | 7.6 | 7.3 | 5.0 | 4.9 | 4.1 | 4.4 | 8.2 | 13.5 | 11.3 | 9.4 | 6.2 | 9.9 | 7.0 | | 7.7 | 8.3 | | 5.3 |
|-------------------------|------|-----|-----|-----|-----|-----|-----|------|------|-----|-----|-----|-----|-----|-----|-----|-----------|-------|
| × | 13.4 | 7.4 | 5.7 | 2.3 | 1.6 | 6. | 2.2 | 3.2 | 0.9 | 3.5 | 4.1 | 2.2 | 2.0 | 1.8 | 0.9 | 6.2 | 3.1 4 | 100.0 |
| N 28 | | | | | | | | | | | | | | | | | \bigvee | |
| 48 - 55 | | | | | | | | | 0. | | | | | | | | X | 0. |
| 41 - 47 | | | | | | | | 0. | 0. | 0. | | | | | | | X | 0. |
| 34 - 40 | | 0. | | | | 0. | 0. | -: | 0. | 0. | | 0. | | | | | X | .1 |
| 28 - 33 | 0. | 0. | 0. | 0. | 0. | 0. | 0. | .2 | ۲. | .1 | 0. | 0. | 0. | 0. | 0. | 0. | X | 4. |
| 22 - 27 | 7: | 0. | 0. | 0. | 0. | 0. | 1. | 4. | 5. | .2 | 0. | 0. | 0. | 0. | 0. | 0. | X | 1.5 |
| 17.21 | е. | .2 | 0. | 0. | 0. | 0. | .2 | .5 | .7 | .3 | .1 | .1 | .1 | . 1 | . 1 | .2 | X | 3.0 |
| 11 . 16 | 2.0 | 1.0 | .1 | 0. | 0. | 0. | .2 | 5. | 1.3 | 9. | . 3 | . 2 | ,3, | , 3 | 1.0 | 1.3 | X | 9.4 |
| 7 - 10 | 4.8 | 2.4 | 1.0 | 4 | -: | 7. | е. | . 4 | 1.0 | .7 | 6. | .5 | .5 | | 2.2 | 2.3 | X | 18.2 |
| 4.6 | 4.7 | 2.4 | 2.8 | 1.1 | .7 | £. | . 7 | ٠. | 1.4 | 6. | 1.6 | 8. | 9. | .5 | 1.8 | 1.6 | X | 22.4 |
| 1.3 | 1.6 | 1.3 | 1.7 | ω. | Φ. | 4 | .7. | 5. | ω. | .7 | 1.1 | 9. | .5 | . 4 | 8. | .7 | X | 13.5 |
| SPEED (KNTS) DIR. | z | Z Z | Z | EXE | 3 | ESE | SE | SSE | s | SSW | »s | WSW | * | WNW | WW | WWW | CALM | 31.4 |

DATA FROM NATIONAL CLIMATIC CENTER FEDERAL BUILDING - ASMEVILLE, N.C., 28801

152521

TOTAL NUMBER OF OBSERVATIONS

-158-

| ALL | ALL | MOURE (L.B.T.) | | | |
|---|-------------|----------------|---|----------|--|
| 23245 MONTEREY, CALIFORNIA NWSED 45,48-69 TOWNSED | ALL WEATHER | CLAss | 36 ⁰ 36', 121 ⁰ 52', 168' | LOCATION | |

| MEAN WIND SPEED | 4. | 4. | | | 4 | 4. | | 4. | | | 5. | | 9 | | | 9 | | 4. |
|-------------------------|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|------|-----|-----------|-------|
| 38 | 5.1 | 1.3 | 1.2 | 8 | 4.1 | 3.8 | 4.5 | 2.6 | 3.7 | 3.2 | 7.3 | 6.8 | 11.8 | 8.7 | 13.3 | 7.4 | 14.4 | 100.0 |
| 1 26 | | | 0. | | | | | | | | | | | | | | \bigvee | 0. |
| 48 - 55 | | | | | | | | | | | | | | | | | \bigvee | |
| 41 - 47 | | | | | | | | | | | | | | | | | \bigvee | |
| 34 - 40 | | | | | | | | | | 0. | 0. | | | | | | \bigvee | 0. |
| 28 - 33 | | | | | 0. | | 0. | 0. | 0. | 0. | 0. | | 0. | | 0. | 0. | X | 0. |
| 22 - 27 | 0. | | | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | X | .2 |
| 17 - 21 | 0. | 0. | | 0. | 0. | 0. | 0. | 0, | 7 | 7. | 1. | 1 | 7. | .1 | .2 | 0. | X | 8. |
| 11 - 16 | .2 | 0. | 0. | 0. | -: | 0. | 7. | 7: | 3 | | | 2 | 1.0 | 1.1 | 1.7 | 9. | X | 6.8 |
| 7 . 10 | 1.0 | .2 | .2 | ,1 | 9. | 5 | .5 | .3 | 7. | .5 | 1.6 | 1.9 | 3.8 | 3.0 | 4.6 | 2.3 | X | 21.5 |
| 4.6 | 2.1 | .5 | 4. | £. | 1.7 | 1.6 | 1.7 | 6 | 1.2 | 1.2 | 2.7 | 2.6 | 4.3 | 2.8 | 4.1 | 2.8 | X | 30.8 |
| 1.3 | 1.8 | 9. | 9. | 4. | 1.8 | 1.7 | 2.2 | 1.2 | 9 [| | 2.2 | 1.6 | 2.7 | 1.7 | 2.6 | 1.7 | X | 25.5 |
| SPEED (KNTS) DIR. | z | Z.Z. | 3,2 | ENE | u u | ESE | SE | SSE | S | Was | 3 | wsw | * | WNW | XX | MNN | CALM | 14.4 |

8108707HVW800780H

DATA FROM NATIONAL CLIMATIC CENTER FEDERAL BUILDING - ASHEVILLE, N.C., 28801

TOTAL NUMBER OF OBSERVATIONS

154998

-159-

ALL

May 1970 thru April 1971

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED

(FROM HOURLY OBSERVATIONS)

Montezuma, Collinsville, CA

87AT108

| | | STATION MAMS | San i | | | | | | VEARS | • | 80478 |
|----------------------|-----|--------------|-------|-------|-----------------|---------------------|------|------|-------|----------------|-----------------------|
| | | | | | ALL WEATHER | ATHER | | | | A | ALL |
| | 1 | | | | C | CLASS | | | | BOURS (L.S.Y.) | (1.8.7.) |
| | | | | 38005 | 380051, 121049" | ., 6 ₇₀ | | | | | |
| | I | | | | 707 | LOCATION | | | | | |
| | | | | | 33 | 33 feet | | | | | |
| | | | | | HEIGHT AR | HEIGHT ABOVE GROUND | OZ | | | | |
| Mean | | | | | | | | | | | |
| SPEED MPH DIR. | 1.0 | 2.0 | 3.0 | 5.5 | 10.0 | 15.5 | 21.5 | 37.5 | | * | MEAN WIND SPEED |
| z | 0.0 | 0 | 0.2 | 0.5 | 0.5 | 0.7 | 0 | 9.0 | | 4.0 | 15.0 |
| NN | 0.0 | 0.1 | 0.1 | 0.3 | 0.3 | 0.2 | 0.1 | 0.I | | 1.5 | 10.3 |
| ž | 0.3 | 0.5 | 9.0 | 1.3 | 0.5 | 0.2 | 0.0 | 0 0 | | 3.4 | 5.2 |
| ENE | 0.3 | 9.0 | 0.5 | 9.0 | 0.2 | | | | | 2.1 | 3.6 |
| | 0.3 | 8.0 | 6.0 | 2.4 | 7.0 | 0.0 | | | | 2 | 4.3 |
| ESE | 0.2 | †. 0 | 0.7 | 3.0 | 1.5 | 0.2 | | | | 0.9 | 6.1 |
| 35 | 0.2 | 0.5 | 9.0 | 1.8 | 1,1 | 0.5 | 0.0 | 0.0 | | 4.7 | 6.7 |
| SSE | 0.0 | 0.3 | 0.3 | 0.7 | 0.1 | 0.1 | 0.0 | | | 1.7 | 5.1 |
| 5 | 0.2 | 0.2 | 9.0 | 0.6 | 0.3 | 0.1 | | | | 2.0 | 4 8 |
| SSW | 0.1 | 0.1 | 0.2 | 0.7 | 0.2 | 0.1 | 0.0 | | | 1.3 | 5.4 |
| SW | 0.1 | 0.1 | 0.2 | 0.7 | 9.0 | b.0 | 0.1 | 0.0 | | 2.2 | 0 6 |
| WSW | 0.1 | 0.1 | 0.1 | 0.5 | 1.2 | 2.3 | 1.7 | 0.2 | | 6.2 | 14.9 |
| * | 0.1 | 0.1 | .0.1 | 1.3 | 4.2 | 9.4 | 6.9 | 1.6 | | 23.7 | 16.2 |
| WHW | 0.1 | 0.1 | 0.3 | 5.0 | 3.9 | 7.9 | 5.0 | 0.6 | | 19.9 | 14.8 |
| WW | 0.1 | 0.4 | 0.8 | 4.1 | 3.6 | 2.5 | 9.0 | | | 12.1 | 9.1 |
| NNN | 0.2 | 0.2 | 0.3 | 1.8 | 8.0 | 0.5 | 0.2 | 0.1 | | 4.2 | 8.3 |
| | | | | | | | | | | - | |

CALM

7.417

0.0

MON

ALL BOOKS (LET.) 34° 12', 118° 14', 1200', 3809 Ocean View Avenue 1/1/55-12/31/61 30 PHEIGHT ABOVE GROUND ALL WEATHER Montrose 056W

|--|--|

These data are available on an hourly basis. Note:

Moss Landing Power Plant

BTA 7 100

March 1969 thru February 1973

ALL WEATHER 1210461 LOCATION CLASS 36048"

BOVES (L.S.T.)

ALL

HEIGHT ABOVE GROUND

| | | | | | | | | | | | | | ı |
|--------------------|-----------|------|------|------|------|------|------|------|------|---|---|-------|--------------------|
| MPH MPH DIR. | 1.5 | 5.1 | 9.6 | 15.1 | 21.1 | 29.1 | 39.1 | 49.1 | 77.1 | | | × | MEA WIN SPEE |
| z | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | | | | | 0.1 | |
| N X | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | | | | | | 0.2 | L |
| z. | 0.1 | 7.0 | 0.3 | 0.1 | 0.0 | 0.0 | | | | | | 0.0 | - |
| 3N3 | 0.3 | 1.4 | 1.3 | 0.5 | 0.1 | 0.0 | | | | | | 3.6 | L |
| W. | 7.0 | 2.1 | | 0.3 | 0.0 | 0.0 | | | | | | 7. 7 | 1 |
| ESE | 1.2 | 3.0 | | 0.8 | 0.1 | 0.0 | | | | | | 7 4 | ╄ |
| SE | 1.4 | 5.9 | | 6.0 | 0.3 | 0.1 | | 0.0 | | | | | ┺ |
| SSE | 1.1 | 1.8 | 0 | 0.2 | 0.0 | 0.0 | 0.0 | | | | | 3 | ↓ |
| S | 0.7 | 1.4 | 0 | 0.2 | 0.0 | 0.0 | | | 0.0 | | | | 1 |
| SSW | 0.6 | 1.5 | 1.0 | 0.5 | 0.3 | 0.1 | 0.0 | | 0.0 | | | 4.7 | L |
| SW | 0.7 | 2.3 | ٦ | 1.1 | 0.3 | 0.1 | 0.0 | | | | | 6.5 | ļ |
| WSW | | 3,1 | | 1.2 | 0.2 | 0.0 | | | | | | 00 | _ |
| * | 0.8 | 3.7 | | 1.9 | 0.7 | 0.4 | 0.0 | | | | | | L |
| WHW | 0.5 | 1.9 | 2 | 1.6 | 6.0 | 0.4 | 0.0 | | 0.0 | | | | |
| WW | 0.3 | 1.2 | ۱, | 6.0 | 0.4 | 0.1 | | | | | | 1 7 | 0 |
| NNW | 0.1 | 0,3 | | 0.4 | 0.3 | 0.1 | | | | | | 7.7 | L |
| | | | | | | | | | | | | | L |
| CALM | \bigvee | X | X | X | X | X | X | X | X | X | X | 24.6 | |
| 24.6 | 9.1 | 27.1 | 23.3 | 10.6 | 3.8 | 1.5 | 0.0 | 0.0 | 0.0 | | | 100.0 | |
| | | | | | | | | | | | | | J |

TOTAL NUMBER OF OBSERVATIONS

32,589

| ALL | Bear # | ALL | Beuns (L.R.T.) |
|---------------------------------|--------------|-------------|-----------------------------|
| January 1934 thru December 1938 | YZABS | ALL WEATHER | 122 181, 3,5861 LOCATION |
| Mt. Shasta, CA | STATION NAME | ALL WI | 41°17', 12 |

8747484

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| WIND SPEED | | | | | | | | | | | | | | | | | | | |
|---------------|------|-----|-----|-----|-----|---------|-------|--------|-----|-----|-----|-----|-----|-----|------|-----|---|-------------------|-----------|
| × | 15.2 | 5.1 | 2.9 | 0.2 | 9.0 | 1.6 | 26.7 | 9.5 | 6.0 | 1.2 | 1.2 | 0.2 | 0.5 | 0.7 | 11.8 | 6.5 | | 6.3 | 1000 |
| | | | | | | | | | | | | | | | | | | X | |
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| | | | | | | | | | | | | | | | | | | X | |
| | | | | | | | | | | | | | | | | | - | X | |
| 244 | | | | | | 0 | , o | 1 | 0 | | | | | | | | | X | - |
| | 1. | 0 | 0.0 | | 0 | 0.0 0.0 | 2 0.0 | 0.4 0. | 0.0 | 0.0 | | | 0.0 | | 0.0 | 1 | | Å | 0 |
| 16-31 32-47 | 0 | 0.0 | _ | | 0.0 | H | _ | .5 | | _ | | 0 | | | | 5 0 | L | $\langle \rangle$ | _ |
| | 4 | 6.0 | 0.5 | L | 0 | 0.4 | - | 7 7 | 2 | H | 0 | 0.0 | 0.0 | 0.1 | 2.6 | 2.5 | | Δ | 7.69 0 69 |
| 4-15 | 11.0 | 4.2 | 6.2 | 0.2 | 0.5 | 1.1 | 14.4 | 4.5 | | 0.8 | 1,1 | 0.2 | 0.5 | 0.5 | 9.1 | 0.4 | | \bigvee | 60 0 |
| MPH DIR. | z | NNE | m X | 373 | | ESE | SE | SSE | s | SSW | SW | WSW | W | WHW | NW | NNW | | CALM | 6 9 |

DATA FROM NATIONAL CLIMATIC CENTER FEDERAL BUILDING - ASHEVILLE, N.C., 28801

TOTAL NUMBER OF OBSERVATIONS

| (PG&E) | (PG&E) | (PG&E) | November 1972 thru October 1974 | Yzang | ALL WEATHER | CLASS | 2800111000061 |
|--------|--------|----------|---------------------------------|-------|-------------|-------|---------------|
| | CA | Vaca, CA | (PG&E) | KABS | | | 48°24 |

STATION

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| SPEED MPH DIR. | 1-3 | 4-7 | 8-12 | 13-18 19-24 25-50 51-65 | 19-54 | 25-50 | 51-65 | > 65 | | | | × | MEAN WIND SPEED |
|----------------------|-----|------|-------------|-------------------------|-------|-------|-------|------|---|---|---|-------|-----------------------|
| z | 0.2 | 6.0 | 1.5 | 1.6 | 1.3 | 1.4 | | | | | | 6.9 | 16,5 |
| ZX | 0.2 | 1.7 | 3.3 | 3.5 | 2,5 | 0.4 | 0.0 | | | | | 15.2 | 18.1 |
| ž | 4.0 | 3.1 | 3.1 | 1,7 | 0.7 | 0.7 | | | | | | 6.7 | 11.5 |
| ava ava | 0.3 | 0.7 | 0.3 | 0.2 | 0.1 | 0.1 | | | | | | 1.7 | 0.6 |
| ., | 0.2 | 0.5 | 0.2 | 0.2 | 0.1 | 0.0 | | | | | | 1.1 | 8.2 |
| ESE | 0.1 | 0.3 | 0.2 | 0.1 | 0.1 | 0.0 | | | | | | 0.8 | 9.7 |
| 35 | 0.2 | 0.4 | 0.3 | 0.3 | 0.2 | 0,1 | | | | | | 1.5 | 11.8 |
| \$5E | 0.2 | 0.5 | 7. 0 | 4.0 | 0.2 | 0.1 | 0.0 | 0.0 | | | | 1,0 | 13.2 |
| s | 0.3 | 1.3 | 1,1 | 1,3 | 6.0 | 0.8 | 0.0 | 0.0 | | | | 5.7 | 14.6 |
| SSW | 0.3 | 1.8 | 2.7 | | | 2.3 | | | | | | - 4 | 16.3 |
| AS. | 0.3 | 2.4 | 5.1 | 6.1 | 3.3 | 1.7 | | | | | | 18,8 | 14.7 |
| WSW | 0.1 | 1.1 | 1.8 | 2.7 | 1.8 | 0.5 | | | | I | | 7.9 | 14.6 |
| * | 0.1 | 0.7 | 2.1 | 2.7 | 0.8 | 0.1 | | | | | | 6.5 | 13.2 |
| WWW | 0.1 | 0.5 | 1.3 | 1.3 | 0.2 | 0.0 | | | | | | 3.4 | 12,1 |
| WW | 0.1 | 0.5 | 1.0 | 0.8 | 4.0 | 0.2 | | | | | | 3.0 | 13.0 |
| WWW | 0.1 | 0.5 | 6.0 | 0.7 | 0.5 | 0.2 | | | | | | 2.8 | 13,8 |
| | | | | | | | | | | | | | |
| CALM | X | X | X | X | X | X | X | X | X | X | X | 0.1 | 14.7 |
| 0.1 | 3.1 | 16.8 | 25.3 | 26.8 | 15.7 | 12.2 | 0.1 | 0.0 | | | | 100.0 | |
| | - | ٦ | | | - | | | | | | | | |

15,103

| ALL WEATHER CLASS 38 ⁰ 13', 122 ⁰ 17', 5' | ALL | ALL | 18000 | |
|---|----------------------|-------------|---------------------|--|
| Napa | Napa, CA 1968 - 1968 | ALL WEATHER | 38°13', 122°17', 5' | |

| MEAN WIND SPEED | | | | | | | | | | | | | | | | | | |
|------------------------|------------|------|-----|-----|-----|-----|-----|-----|------|------|----|-----|-----|-----|-----|-----|-----------|------|
| * | 8.8 8.8 | 0.5 | 0.7 | 4.9 | 5.9 | 1,2 | 1.3 | 2.0 | 17.9 | 12.4 | 8 | 9.3 | 8.6 | 1.4 | 1.1 | 1.6 | 19.7 | 6.66 |
| | | | | | | | | | | | | | | | | | X | |
| | | | | | | | | | | | | | | | | | X | |
| | | | | | | | | | | | | | | | | | X | |
| | | | | | | | | | | | | | | | | | X | |
| | | | | | | | | | | | | | | | | | \bigvee | |
| | | | | | | | | | | | | | | | | | \bigvee | |
| 21-30 | | | | | | | | | | | | | | | | | \bigvee | 3 |
| 16-20 | | | | | | | | | | | | | | | | | \bigvee | 6 |
| 6-10 11-15 16-20 21-30 | | | | | | | | | | | | | | | | | \bigvee | 22 |
| 6-10 | | | | | | | | | | | | | | | | | X | 42 |
| 1-5 | | | | | | | | | | | | | | | | | X | 4 |
| SPEED MPH DIR. | z | ENZ. | Z. | ENE | | ESE | SE | 558 | s | SSW | SW | WSW | * | WHW | MW | NNN | CALM | 20 |

| ALL | ALL | BOURG (L.E.) | |
|----------------|-------------|-----------------------|---------------------|
| 1969 thru 1974 | ALL WEATHER | 34°46', 114°37', 919' | HEIGHT ABOVE GROUND |
| Needles, CA | | | |
| 23179 | | | |

| Knots | ۲- | 4-6 | 7-10 | 11-16 | 17-21 | > 21 | | | | | | * | MEAN |
|-------|-----|------|------|-------|-------|----------------|---|---|-----------|---|---|-------|-------|
| DIR |) | | | | | | | | | | | 1 | SPEED |
| z | 1.0 | 1.6 | 2.4 | 2.8 | 1.9 | 1.0 | | | | | | 8.6 | 13.2 |
| NNE | 0.0 | 1.0 | 0.7 | 0.3 | 0.1 | 0.0 | | | | | | 2.2 | 8.2 |
| ž | 0.0 | 0.8 | 0,4 | 0.1 | 0.0 | 0.0 | | | | | | 1.4 | 6.5 |
| ENE | 0.0 | 1.0 | 0.7 | 0.1 | 0.0 | 0.0 | | | | | | 1.9 | 8.9 |
| 3 | 0.0 | 1.5 | | 0.2 | 0.0 | 0.0 | | | | | | 2.8 | 7.2 |
| ESE | 0.0 | 9.0 | 9.0 | 0.1 | 0.0 | 0.0 | | | | | | 1.4 | 7.5 |
| 38 | 0.0 | 9.0 | 9.0 | 0.3 | 0.0 | 0.0 | | | | | | 1.6 | 8.4 |
| SSE | 0.0 | 8.0 | 1.2 | 1.0 | 0.2 | 0.0 | | | | | | 3.3 | 10.1 |
| v | 0.1 | 1.8 | 4.2 | 3.5 | 0.8 | 4.0 | | | | | | 10.6 | 10.6 |
| SSW | 0.0 | 1.8 | 3.4 | 1.6 | 0.3 | 0.0 | | | | | | 7.3 | 9.2 |
| 3w | 0.1 | 2.0 | 3.9 | 1.3 | 0.2 | 0.0 | | | | | | 7.4 | 8.6 |
| WSW | 0.1 | 3.2 | 4.1 | 1.2 | 0.2 | 0.1 | | | | | | 8.8 | 8.2 |
| * | 0.1 | 3.1 | 2.7 | 0.7 | 0.3 | 0.1 | | | | | | 7.0 | 8.0 |
| WHW | 0.0 | 1.7 | 1.7 | 0.3 | 0.1 | 0.0 | | | | | | 3.8 | 7.6 |
| NW | 0.0 | 1.2 | 1.8 | 0.5 | 0.1 | 0.0 | | | | | | 3.8 | 8.5 |
| NNW | 0.0 | 1.1 | 2.2 | 1.8 | 9.0 | 0.2 | | | | | | 0.9 | D. II |
| AVR. | 2.9 | 5.2 | 8.5 | 13.3 | 18.8 | 25.0 | | | | | | | |
| CALM | X | X | X | X | X | X | X | X | \bigvee | X | X | 21.0 | 7.4 |
| 21.0 | 0.7 | 24.0 | 31.7 | 15.9 | 4.9 | 1.7 | | | | | | 100.0 | |

DATA FROM NATIONAL CLIMATIC CENTER FEDERAL BUILDING - ASHEVILLE, N.C., 28801

TOTAL NUMBER OF OBSERVATIONS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED

42-44,49-72 (FROM HOURLY OBSERVATIONS) ALL WEATHER LOCATION 1880 NELLIS AFB NEVADA/LAS VEGAS 115002', 36015', 13

> 23112 STATION

HEIGHT ABOVE GROUND

ALL WOURS (L.R.T.) ALL

| MEAN WIND SPEED | 7 0 | | 7.7 | 9 | 6.2 | 6.7 | 7 | 10 | 9.8 | 10 | 8.8 | 7 | 6.7 | 9.0 | 7.5 | 9 | | 5.8 |
|-------------------------|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|-----|-----|-----|-----|-----|-----|-----------|-------|
| × | 3 8 | - 4 | 8 8 | 4.3 | 5.3 | 2.6 | 3.7 | 2.9 | 10.7 | 6.7 | 5.9 | 1.7 | 2.7 | 2.1 | 2.7 | 1.2 | 30.1 | 100.0 |
| % AI | | | | | | | | | | | | | | | | | \bigvee | |
| 48 - 55 | | 0 | Q | | | | | | | | | | | | | | \bigvee | 0 |
| 41 - 47 | | 0 | d | | | | 0, | d | | 0 | 0 | | 0 | | | | X | 0 |
| 34 - 40 | c | 0 | q | 0. | | 0 | 0. | 0 | 0 | 0 | 0. | 0 | 0 | 0 | 0 | 0. | X | 0 |
| 28 - 33 | c | 0 | 0 | 0. | 0 | 0 | 0, | 0 | 0 | 0 | 0. | 0. | 0 | 0 | 0. | 0. | X | . 2 |
| 22 - 27 | - | . 2 | - | 0. | 0 | 0. | 0. | - | . 3 | . 4 | . 2 | 0. | .1 | - | - | 0. | X | 9 |
| 17 - 21 | | .5 | . 4 | .1 | . 1 | ,1 | . 2 | . 3 | 1.0 | | | -1 | .1 | . 2 | . 2 | 0. | X | 4.7 |
| 11 . 16 | 5. | 6. | 1.6 | .5 | . 4 | ٤, | 9. | ∞. | 2.8 | 1.6 | 1.2 | . 3 | .3 | . 3 | . 4 | .1 | X | 12.7 |
| 7 - 10 | 7. | ω. | 2.4 | 1,4 | 1.6 | . 7 | 1.0 | . 7 | 2.9 | 1.4 | 1.2 | | . 4 | .3 | . 4 | . 2 | X | ~ |
| 9 : | 1.3 | 1.3 | 2.7 | 1.4 | 1.9 | 8 | 1.1 | 9. | 2.3 | 1,5 | 1.6 | 5. | 6. | .5 | 8 | . 4 | X | 19.5 |
| | 1.0 | 1.0 | 1.8 | 6. | 1.4 | 9. | 8. | 4. | 1.3 | 1.1 | 1.2 | 5. | 6. | 9. | 8. | 4. | X | 14.8 |
| SPEED (KNTS) DIR. | z | NNE | 2 | 3V3 | | ESE | SE | SSE | S | SSW | »S | WSW | * | WHW | WW | WNW | CALM | 30.1 |

230638

TOTAL NUMBER OF OBSERVATIONS

-167-

| ALL | | ALL Beens (LRT.) | 9 | | | MEAN | | 8.3 3.9 | 5.7 7.1 | 2.5 6.5 | | 2.9 1.7 | - | 8.6 3.0 | | 13.8 3.3 | | 2.4 2.7 | | 5.5 2.3 | | | 6.4 3.1 | - | 100.2 | 54,443 |
|---------------------|--------|---------------------|-----------|------|---------------------|-------|-----|---------|---------|---------|-----|---------|-----|---------|-----|------------|-----|---------|-----|---------|-----|----|---------|-----------|-------|---|
| | | | | | | | | | | | | | | | | | | | | | | | | X | | TOTAL NUMBER OF OBSERVATIONS |
| | | 1 | 1 | | | L | | | | | | | | | | | | | | | | | | X | | MAER OF OS |
| YZABS | | | | | | L | | | | | | | | | | | | | | | | | | X | | TOTAL NU |
| 272 | | | | | | | | | | | | | | | | | | | | | | | | X | | trict |
| 1909-1910 | | | | | OKD | | | | | | | | | | | | | | | | | | | X | | South Coast Air Quality Management District |
| 1 | 201144 | ALL WEATHER | | 301 | HEIGHT ABOVE GROUND | | | | | | | | | | | | | | | | | | | X | | agemer |
| | | ALL | 1270, | ري و | HEIGHT A | | | | | | | | | | | | | | | | | | | X | | ty Mar |
| | | | 118° 33', | | | | | L | | | | | | | | | | | | | | • | | X | | Quali |
| all atation mand | | | | | | | | | | | | | | | | | | | | | | | | \bigvee | | st Air |
| Newhall | | | 340 221, | | | | | | | | | | | | | | | | | | | | | X | | South Coast Air Qua |
| Ž | | I | (r) | | 1 | | | | | | | | | | | | | | | | | | | X | | |
| | | | | | | SPEED | MBH | z | N.K. | ž | ENE | | ESE | SE | 358 | 2 | SSW | SW | WSW | * | WHW | MM | MNW | CALA | | Data from |

Note: These data are available on an hourly basis.

| ALL | attend . | ALL BROSS (LAT.) | | | |
|---------------|--------------|------------------|----------------------|----------|---------------------|
| 4/21-15/8 | HALT. | ALL WEATHER | , 1900 Bayside Drive | LOCATION | HEIGHT ABOVE GROUND |
| Newport Beach | BTATION MARK | | | | |
| NP 063W | STA VIDE | | | | |

| MPH | 2 | NNE | N. | - N | , 1 | 151 | SE | SSE | 2 | SSW | SW. | WSW | * | WIW | NW | NNW | | CALM | |
|---------------|--------|-----|-----|-----|-----|-----|------|------|-----|-----|------|-----|------|-----|-----|------|---|-------------------|------|
| | | | | | | | - | | | | | | | | | | | $\langle \rangle$ | |
| | | | | | | | | | | | | | | | | | | X | |
| | | | | | | | | | | | | | | | | | | X | |
| | | | | | | | | | | | | | | | | | | X | |
| | | | | | | | | | | | | | | | | | | X | |
| | | | | | | | | | | | | | | | | | | X | |
| | | | | | | | - | | | | | | | | | | | X | |
| | \mid | | - | | | - | | | - | | | | - | | | | | X | |
| | | | | | | | | | | | F | | | | | | - | X | 01 |
| × | 10.8 | 3.3 | | 6.0 | 2.6 | 2.3 | 10.5 | 10.1 | 7.9 | 4.1 | 11.3 | 8.2 | 14.8 | 2.7 | 3.5 | F. 3 | | - | 8.66 |
| WIND SPEED | 2.0 | 9.9 | 5.3 | 4.8 | 3.9 | 5.2 | 7.1 | 0.8 | 6.2 | 0.9 | 5.6 | 7.0 | 8.0 | 7.9 | 5.0 | 4.5 | | | 5.2 |

These data are available on an hourly basis.

Note:

-169-

| | ALL | MONTN | ALL | HOURS (L.R.T.) | | | | |
|---|---------------------------------------|--------------------|-------------|----------------|------------------------|----------|------|---------------------|
| PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS) | NORTON AFB CALIF/SAN BERNARDINO 43-72 | STATION NAME YEARS | ALL WEATHER | CLASS | 34006', 117015', 1099' | LOCATION | 135' | HEIGHT ABOVE GROUND |

23122 STATION

| | | | | | | | | | | | | | | | | | | |
|-------------------------|------|-------|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|-----|-----|-----|-----------|-------|
| MEAN WIND SPEED | 10.2 | 8.7 | 4.9 | 4.0 | 4.2 | 4.4 | 4.6 | 4.8 | 4,4 | 5.0 | 5.9 | 9.9 | 6.3 | 5.4 | 5.9 | 8.6 | | 3.5 |
| 38 | 2.2 | 1.2 | 2.1 | 2.3 | 5.8 | 3.2 | 3,3 | 1.0 | 1.4 | 1.7 | 8.2 | 10.1 | 10.6 | 2.6 | 2.2 | 1.2 | 40.7 | 100.0 |
| A1 | | | | | | | | | | | | | | | | | \bigvee | |
| 48 - 55 | • | | | | | | | | | | | | | | | | X | |
| 41 - 47 | | | | | | | | | | | | | | | | | X | |
| 34 - 40 | 0. | 0. | | | | | | | | | | | | | 0. | 0. | X | 0. |
| 28 - 33 | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | | | | | | | 0. | 0. | X | .1 |
| 22 - 27 | .1 | .1 | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0 | 0. | 0. | 0. | 0. | 0. | 0. | X | . 3 |
| 17 - 21 | .3 | 1. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | -1 | .1 | X | 8 |
| 11 - 16 | 4. | .2 | -1 | 0. | .1 | .1 | .1 | | 0. | 0. | .5 | 6 | Φ. | 7 | .2 | .2 | X | 3.7 |
| 7 - 10 | . 4 | . 2 | .2 | | 8 | .5 | 9. | .2 | .2 | . 4 | 2.7 | 3.9 | 3.8 | 9. | . 4 | .2 | X | 15.4 |
| 9:- | е. | .3 | ω. | 1.0 | 2.2 | 1.2 | 1.1 | е. | 4. | 5. | 2.9 | 3.4 | | 1.0 | .7 | .3 | X | 20.2 |
| 1.3 | 9. | . 4 | 1.0 | 1.1 | 2.8 | 1.5 | 1.5 | .5 | 8 | .7 | 2.1 | 1.9 | 2.3 | 80 | 8. | .3 | X | 18.9 |
| SPEED (KNTS) DIR. | z | N. K. | 2 | ENE | w | ESE | SE | SSE | s | SSW | NS. | WSW | * | WHW | ww | WWW | CAUA | 40.7 |
| | _ | - | | | | - | | _ | | - | | | _ | - | | _ | - | |

DATA FROM NATIONAL CLIMATIC CENTER FEDERAL BUILDING - ASHEVILLE, N.C., 28801

259005

TOTAL NUMBER OF OBSERVATIONS

-170-

| ALL BESTREE ALL BESTREE (L.C.T.) | WIND WIND SPEED | 5.9 | 5.8 | 4.8 | 3.3 | 3.0 | 4.0 | 3.6 | 3.6 | 2.9 | 2.7 | 2.7 | 3.1 | 3.3 | 6.9 | 5.6 | 3.3 | | 3.8 | 39 |
|---|-----------------------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|-------|--|
| | ak . | 12,3 | 2,6 | 5.8 | 3.9 | 9.9 | 9.3 | 9.6 | 5.4 | 5.0 | 2.5 | 3.8 | 4.1 | 7.3 | 4.5 | 5.4 | 8.9 | 1 | 100.0 | 83,768 |
| | | | | | | | | | | | | | | | | | | X | | RVATIONS |
| | | | | | | | | | | | | | | | | | | X | | TOTAL NUMBER OF OBSERVATIONS |
| TAMP Get | | | | | | | | | | | | | | | | | | X | | TOTAL NUM |
| Str | | | | | | | | | | | | | | | | | | X | | rict |
| 1956-1966 Nordhoff | | | | | | | | | | | | | | | | | | X | | South Coast Air Quality Management District 9420 Telstar Avenue |
| 195 ALL WEATHER CLASS CLASS 8571, 18111 NG 251 251 HEIGHTABOVE GROUND | | | | | | | | | | | | | | | | | | X | | agemen |
| ALL WEATHER CLASS S57's 18111 25' 25' HEIGHT ABOVE GRO | - | | | | | | | | | | | | , | | | | | X | | ty Man |
| 32.1 | | | | | | | | | | | | | | | | | | X | | Quali enue |
| 1180 | | | | | | | | | | | | | | | | | | X | | st Air tar Av |
| SSU STATEMENTS HADE | | | | | | | | | | | | | | | | | | X | | South Coast Air Qua 9420 Telstar Avenue |
| Northridge CSU | | | | | | | | | | | | | | | | | | X | | |
| Nort | MBH. | z | NNE | N. | ENE | | 252 | 35 | SSE | - | SSW | SW | WSW | * | WMW | MW | NNW | CALM | | Data from |
| PRATES. | | _ | | | | | | _ | | | | | | | | | | | | А |

These data are available on an hourly basis.

Note:

-171-

| ALL | BARAN | ALL | HOURS (L.S.T.) | | | | | MEAN |
|-------------|---------------------|-------------|----------------|--|----------|-----|---------------------|---|
| | NOTUTE HOLLLY WOOD. | ALL WEATHER | CLASS | 34°10', 118° 25', 900' 12755 Burbank Blouevard | LOCATION | 000 | HEIGHT ABOVE GROUND | 011 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 |
| KMP 043W | MA | | | | | | | |

| 1-3 4-6 7-10 11-16 |
|--------------------|
| 9-14 |
| 4-6 7-10 |
| 4-6 7-10 |
| |
| |

Note: These data are available on an hourly basis.

ALL BOOM (LET.) 排 1/1/55 - 12/31/59 100, 13539 Foster Road HEIGHT ABOVE GROUND ALL WEATHER 1180 041 330 551 Norwalk WIL 032W

| | - | | | | | | | | | | | | |
|------------|----------|--------------------|---------|---|--------|--------|--------|-------|-----------|------------------------------|-----------|--------|------|
| WEE SEE | 1-3 | 9-4 | 7-10 | 11-16 17-21 22-27 28-33 34-40 41-47 48-55 | 17-21 | 22-27 | 28-33 | 24-40 | 41-47 | 48-55 | 56 | ak. | WIND |
| 2 | | | | | | | | | | | | 7.6 | 2.8 |
| Z | | | | | | | | | | | | | |
| Z | | | | | | | | | | | | 3.2 | 5.3 |
| iva iva | | | | | | | | | | | | | |
| - | | | | | | | | | | | | 10.5 | φ. |
| 158 | | | | | | | | | | | | | - |
| SE | | | | | | | | | | | | 17.5 | 2.5 |
| SSE | | | | | | | | | | | | | K |
| 50 | | | | | | | | | | | | 19.4 | 7.4 |
| SSW | | | | | | | | | | | | | |
| S.W. | | | | | | | | | | | | 21.2 | 7.7 |
| WSW | | | | | | | | | | | | | |
| * | | | | | | | | | | | | 13.5 | 400 |
| WHW | | | | | | | | | | | | | |
| MM | | | | | | | | | | | | 7.2 | 4. |
| MNN | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| SAM | X | X | X | X | X | X | X | X | X | X | X | - | |
| | | | | | | | | | | | | 100 0 | 4.4 |
| Data | from Sou | uth Cos | ast Air | South Coast Air Quality Management District | ty Man | agemen | f Dist | rict | TOTAL NUA | TOTAL NUMBER OF ORSERVATIONS | ERVATIONS | 23.781 | - |
| | E | El Monte, CA 91731 | CA | 1731 | | | | | | | | | |
| | 1 | | |) | | | | | | | | | |

These data are available on an hourly basis. Note:

DEDCENTAGE SDECIENCY OF WININ

STATIS

| į. |
|--------|
| GROUND |
| ABOVE |
| HEIGHT |
| |

| *MPH | 1-3 | 4-7 | 8-12 | 8-12 13-18 | 19-54 | 25-31 32-38 39-46 | 32-38 | 39-46 | Z 47 | | | ył. | MEAN |
|------|------|---------|------|------------|-------|-------------------|-------|-------|------|---|---|-------|-------|
| DIR. | | | | | | | | | | | | | SPEED |
| z | 9.0 | 1,3 | 0.7 | 0.3 | 0.1 | + | + | + | + | | | 3.0 | 7.5 |
| NNE | 0.4 | 9.0 | 0,3 | 0.2 | 0.1 | + | + | + | | | | 1.7 | 8.6 |
| ž | 9.0 | 0.7 | 0.3 | 0,1 | + | + | | | | | | 1.8 | 6.3 |
| a va | 9.0 | 1.1 | 7.0 | 0.1 | + | | | | | | | 2.2 | 5.5 |
| , IN | 6.0 | 1.4 | 0.3 | + | | | | | | | | 2.7 | 6.4 |
| ESE | 0.8 | 1.5 | 0.3 | + | | | | | | | | 2.7 | 5.1 |
| SE | 0.8 | 2.3 | 1,6 | 9.0 | 0,1 | + | + | | | | | 5.4 | 7.8 |
| \$58 | 0.4 | 1.0 | 1.1 | 6.0 | 0.3 | 0.1 | + | | | | | 3.9 | 10.8 |
| s | 0.5 | 1,2 | 0.8 | 0.3 | 0,1 | + | | | | | | 2.9 | 7.8 |
| SSW | 0.4 | 1 1 | 1,0 | 0.4 | 0,1 | + | + | | | | | 3.1 | 8.1 |
| »s | 7.0 | 2.2 | 2.2 | 6.0 | 0.1 | + | ÷ | + | | | | 6.1 | 8.5 |
| WSW | 0.5 | 2.7 | 4 | 5.6 | 0.3 | + | + | + | + | | | 10.6 | 10.0 |
| } | 8.0 | 3.3 | 5.7 | 4.1 | 9.0 | 0.1 | + | | | | | 14.6 | 10.5 |
| WHW | 0.8 | 3.4 | 5.8 | Q. 4 | 0.5 | 0.1 | + | | | | | 14.6 | 10.4 |
| MM | 6.0 | 2.2 | 2.1 | 0.8 | 0.1 | + | | | | | | 0.9 | 7.9 |
| NNW | 0.5 | 1,3 | 6.0 | 0.3 | + | + | + | | | | | 3.1 | 7.4 |
| | | | | | | | | | | | | | |
| CALM | X | X | X | X | X | X | X | X | X | X | X | 15.6 | |
| 15.6 | 10.2 | 27.6 27 | 27.8 | 15.8 | 2.4 | 0.5 | 0.1 | + | + | | | 100.0 | 7.5 |

TOTAL NUMBER OF OBSERVATIONS

87,672

= more than 0 but less than 0.5

| Oceanside, ca | 1934 CILL 1930 |
|------------------------|----------------|
| BTATION NAME | YEARS |
| | ALL WEATHER |
| | CLASS |
| 330 14', 1170 25', 26' | , 26, |
| | LOCATION |

| WEAN WIND SPEED | | | | | | | | | | | | | | | | | | |
|-----------------------|-----|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|------|-----|-----------|-----------|
| × | 1.6 | 0.8 | 18.7 | 4.5 | 8.3 | 9.0 | 3.1 | 9.0 | 4.1 | 0.9 | 9.3 | 2.3 | 16.0 | 4.0 | 11.9 | 0.4 | 13.0 | 100.0 |
| | | | | | | | | | | | | | | | | | X | |
| | | | | | | | | | | | | | | | | | X | |
| | | | | | | | | | | | | | | | | | X | |
| | | | | | | | | | | | | | | | | | X | |
| | | | | | | | | | | | | | | | | | X | |
| | | | | | | | L | | | | | | | | | | X | |
| | | | | | | | | | | | | | | | | | X | |
| 747 | | | | | | | | | | | | | | | | | X | |
| 16-31 32-47 | 0.0 | | 0.0 | | | | 0.0 | | 0.0 | 0.0 | 0.0 | | 0.0 | 0.0 | 0.0 | | X | 0.1 |
| 16-31 | 0.1 | 0.1 | 1.4 | 0.5 | 0.3 | 0.0 | 0.1 | 0.1 | 0.4 | 0.1 | 0.3 | 0.1 | 1.1 | 0.5 | 1.7 | 0.0 | \bigvee | 6.7 |
| 4-15 | 1.5 | 0.7 | 17.3 | 4.0 | 8.0 | 9.0 | 2.9 | C.0 | 3.7 | 0.8 | 0.6 | 2.2 | 14.9 | 3.5 | 10.2 | 0.4 | \bigvee | 13.0 80.2 |
| SPEED MPH DIR. | z | NNS | N. | ENE | , 3 | ESE | 3.8 | SSE | s | SSW | SW | WSW | * | WHW | MM | NNW | CAUA | 13.0 |

DATA FROM NATIONAL CLIMATIC CENTER FEDERAL BUILDING - ASHEVILLE, N.C., 28801

PERCENTAGE FREQUENCY OF WIND (FROM HOURLY OBSERVATIONS) DIRECTION AND SPEED

HOURS (L.B.T.) 49-53,55 ALL WEATHER CLASS 919 ONTARIO CALIFORNIA WB 2ND ORD 117036', 34003',

93180 BYATION HEIGHT ABOVE GROUND

ALL ALL

| MEAN WIND SPEED | 4.5 | 0.6 | | 11.1 | 5.1 | 6.0 | 3.9 | 4.6 | 4.3 | 6.8 | 8.3 | 10.6 | 8,5 | 9.9 | | 5.2 | | 7.9 |
|-------------------------|-----|-----|-----|------|-----|-----|-----|-----|-----|-----|------|------|------|-----|-----|-----|-----------|-------|
| 3¢ | 2.5 | 1.6 | 3.8 | 2.1 | 3.1 | 1:1 | 2.7 | 1:0 | 3.9 | 4.2 | 17.4 | 33.0 | 11.9 | 2.7 | 2.4 | 9. | 6.1 | 100.0 |
| V) % | | | | | | | | | | | | | | | | | \bigvee | |
| 48 - 55 | | 0. | | | | | | | | | | | | | | | \bigvee | 0. |
| 41 - 47 | | | 0. | 0. | | 0. | | | | | | | | | | | X | 0. |
| 34 - 40 | | 0. | 0. | 0. | 0. | | | | | | | | | | | | X | .1 |
| 28 - 33 | | 0. | .1 | ۲. | 0. | | | | | | | | 0. | | | | X | .1 |
| 22 - 27 | | .1 | .2 | ٠. | 0. | 0. | | | | 0. | -1 | .2 | -1 | 0. | | | X | 6. |
| 17:21 | 0. | .2 | .2 | .3 | .1 | 0. | 0. | | | .1 | .7 | 2.7 | 9. | 0. | 0. | | X | 4.9 |
| 11 . 16 | 0. | .2 | .2 | £. | .2 | 7. | 0. | 0. | 0. | 4. | 3.8 | 11.9 | 2.3 | .2 | -1 | 0. | X | 19.9 |
| 7 - 10 | .3 | .3 | 9. | 4 | £. | .2 | 7. | Γ. | .5 | 1.3 | 5.7 | 11.8 | 4.3 | 6. | 4. | .1 | X | 27.4 |
| 4.6 | 1.1 | .5 | 1.0 | 4. | 6. | 4. | ω. | 4. | 1.4 | 1.6 | 4.2 | 4.9 | 2.8 | 1.0 | 1.0 | .3 | X | 23.0 |
| 1.3 | 1:1 | .3 | 1.4 | 4. | 1.6 | 4. | 1.7 | .5 | 2.0 | ∞. | 2.9 | 1.4 | 1.7 | .5 | 6. | .2 | X | 17.5 |
| SPEED (KNTS) DIR. | z | ZNE | ¥Z | ENE | | ESE | SE | SSE | S | SSW | ×s. | WSW | * | WNW | N.K | MNN | CALM | 6.1 |
| | | | | | | | | | | | | | | | | | | |

FEDERAL BUILDING - ASHEVILLE, N.C., 28801 DATA FROM NATIONAL CLIMATIC CENTER

23378

TOTAL NUMBER OF OBSERVATIONS

| ALL | Dea TR | ALL | BOURS (1.5.T.) | | |
|-----------------------|--------------|-------------|----------------|-----------|---------------------|
| July 1968 - June 1972 | YEARS | ALL WEATHER | CLASS | LOCA 710N | HEIGHT ABOVE GROUND |
| Oroville RS | STATION NAME | | | | Ψ. |

BTATAGS

| MEAN WIND SPEED | | | | | | | | | | | | | | | | | | |
|-----------------------|-----|------|-----|-----|-----|-----|-----|-----|------|-----|------|-----|-----|-----|-----|-----|------|-----------|
| м | | | | | | | | | | | | | | | | | 1 | 100.0 |
| | | | | | | | | | | | | | | | | | X | |
| | | | | | | | | | | | | | | | | | X | |
| | | | | | | | | | | | | | | | | | X | |
| | | | | | | | | | | | | | | | | | X | |
| | | | | | | | | | | | | | | | | | X | |
| | | | | | | | | | | | | | | | | | X | |
| | | | | | | | | | | | | | | | | | X | |
| 31-45 | | | | | | | | | 0.2 | | | | | | | | X | 0.0 |
| 6-15 16-30 31-45 | 0.7 | | 0.2 | | | | 1.1 | | 3.6 | | 0.7 | | 0.2 | | 3.0 | | X | 0 |
| 6-15 | 1.8 | | 1.9 | | 8.0 | | 4.7 | | 14.0 | | 9.4 | | 3.2 | | 6.4 | | X | 48 1 42 2 |
| 0-5 | | | | | | | | | | | | | | | | | X | LAN |
| SPEED MPH DIR. | z | N.N. | ž | ENE | . 1 | ESE | SE | SSE | s | SSW | S.W. | WSW | * | WHW | WW | MMM | CALM | |

DATA FROM NATIONAL CLIMATIC CENTER FEDERAL BUILDING – ASNEVILLE, N.C., 28801

TOTAL NUMBER OF OBSERVATIONS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED

(FROM HOURLY OBSERVATIONS)

23136 STATION

44-45,52-67 ALL WEATHER LOCATION 82 34⁰13', 119⁰04', OXNARD CALIFORNIA AFB

ALL ROURS (1.8.T.) ALL

HEIGHT ABOVE GROUND

| MEAN WIND SPEED | 3.7 | 4.6 | 9.9 | 7.7 | 6.6 | 5.1 | 3.9 | 4.1 | 5.4 | 6.1 | 6.5 | 7.0 | 7.2 | 5.4 | 3.9 | 3.7 | | 4.4 |
|-------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|-----|-----|-----|------|--------|
| 24 | 1.6 | 1.5 | 5.7 | 9.9 | 4.4 | 1.2 | 1.0 | 8 | 2.2 | 3.2 | 9.7 | 10.4 | 12.6 | 3.3 | 3.7 | 1.8 | 30.0 | 100.00 |
| % Al | | | | | | | | | | | | | | | | | X | |
| 48 - 55 | | | | | | | | | | | | | | | | | X | |
| 41 - 47 | | | | | | | | | | | | | | | | | X | |
| 34 - 40 | | | 0. | 0. | 0. | | | | | | | | 0. | | | | X | 0. |
| 28 - 33 | | 0. | 0. | 0. | 0. | 0 | 0. | | | | | | 0. | 0. | 0. | | X | - |
| 22 - 27 | 0. | 0. | ۲. | .2 | 1. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 1. | 0. | 0. | 0. | X | 5. |
| 17.21 | 0. | 0. | .2 | .5 | .2 | 0. | 0. | 0. | 0. | 0. | 0. | - | .3 | 0. | 0. | 0. | X | 1.4 |
| 11 - 16 | 0. | 0. | 9. | 1.0 | .5 | ,1 | 0. | 0. | . 2 | ۳. | .7 | 6. | 1.6 | ٠, | 0. | 0. | X | 6.3 |
| 7 - 10 | .1 | .2 | 6. | 1.1 | . 7 | .1 | .1 | | .5 | 1.0 | 3.9 | 4.8 | 4.6 | 9. | .3 | .1 | X | 19.0 |
| 4.6 | 9. | .5 | 2.1 | 2.2 | 1.4 | . 4 | . 3 | .2 | .7 | 1.1 | 3.3 | 3.4 | 3.7 | 1.1 | 1.5 | .7 | X | 23.2 |
| 1.3 | 6. | .7 | 1.8 | 1.8 | 1,5 | 9. | 9. | 4. | 8. | 8. | 1.7 | 1.4 | 2.3 | 1.3 | 1.9 | 1.0 | X | 19.5 |
| SPEED (KNTS) DIR. | z | NNE | Z. | ENE | E | ESE | SE | SSE | S | SSW | SW. | WSW | Ж | WHW | MM | MNN | CAUA | 30.0 |

DATA FROM NATIONAL CLIMATIC CENTER FEDERAL BUILDING - ASHEVILLE, N.C., 28801

TOTAL NUMBER OF OBSERVATIONS

143280

| ALL | MONTH | ALL | BOURS (L.R.T. | | | | |
|--------------------------------------|--------------------|-------------|---------------|------------------------|----------|-----|---------------------|
| PALMDALE APT CALIF 48-54,61-64,71-73 | STATION NAME TEARS | ALL WEATHER | CLASS | 34038', 118005', 2520' | LOCATION | 28, | HEIGHT ABOVE GROUND |
| 23182 | BTATION | | | | | | |

| MEAN WIND SPEED | 5.7 | 6.8 | 7.1 | 8.7 | 7.7 | 6.9 | 5.3 | 5.6 | 6.4 | 9.5 | 11.7 | 12.4 | 11.6 | 13.7 | 9.3 | 6.3 | | 8.8 |
|-------------------------|-----|-----|-----|-----|------|-----|-----|-----|------|-------|------|------|------|------|-----|------|-----------|-------|
| yk. | 3.8 | 2.4 | 2.5 | 1.9 | 1.9 | 1.2 | 1.7 | 2.1 | 10.3 | 11.3 | 19.5 | 10.6 | 6.7 | 7.4 | 4.3 | 2.4 | 10.0 | 100.0 |
| VI 28 | | | | | | | | | | | | | | | | | \bigvee | |
| 48 - 55 | | | | | | | | | | | | | 0. | | | | \bigvee | 0. |
| 41 - 47 | | | | | | | | | | | | | | | | | \bigvee | |
| 34 - 40 | | 0. | | 0. | | | | | 0. | 0. | 0. | 0. | 0. | 0. | 0. | | \bigvee | 0. |
| 28 - 33 | | 0. | 0. | | | 0. | | 0. | 0. | 0. | .1 | 0. | | .2 | 0. | 0. | \bigvee | 4. |
| 22 - 27 | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 4. | 1.2 | 4. | 4. | 1.0 | .2 | 0. | X | 3.8 |
| 17.21 | 0. | 0. | .1 | .1 | .1 | 0. | 0. | 0. | .1 | 1.1 | 3.1 | 1.9 | 6. | 1.5 | . 4 | 0. | X | 9.4 |
| 11 - 16 | . 2 | .2 | .3 | 4. | .3 | .1 | 1. | 0. | .5 | 2.0 | 5.8 | 4.1 | 2.1 | 2.0 | .7 | :1 | X | 19.0 |
| 7 . 10 | 1.0 | .7 | .7 | 9. | .5 | 4. | .3 | .5 | 3.3 | 3.2 | 4.5 | 2.5 | 1.7 | 1.4 | 1.0 | 9. | X | 23.1 |
| 4: | 1.7 | 1.0 | 6. | .5 | 9. | .5 | 6. | 1.1 | 5.1 | 3.7 | 3.4 | 1.2 | 1.0 | 1.1 | 1.3 | 1.1 | X | 25.2 |
| :: | 6. | 4. | .5 | .2 | .3 | .2 | 4. | 4. | 1.3 | 8. | 1.3 | 4. | 5. | 4. | 9. | .5 | X | 9.1 |
| SPEED (KNTS) DIR. | z | WZZ | ž. | ENE | . 41 | ESE | SE | SSE | s | SSW . | SW | WSW | > | WNW | WW | NNX. | CAUA | 10.0 |
| | | | | | | | | | | | | | | | | - | | |

DATA FROM NATIONAL CLIMATIC CENTER FEDERAL BUILDING - ASHEVILLE, N.C., 28801

TOTAL NUMBER OF OBSERVATIONS

109166

-179-

| ALL | BOSTA | ALL | HOURS (L.S.T.) | | |
|-----------------------------|--------------|-------------|-----------------------|----------|---------------------|
| May 1943 thru February 1946 | YZABS | ALL WEATHER | 33°54', 116°33', 420' | LOCATION | HEIGHT ABOVE GROUND |
| Palm Springs AAF | BTATION MARE | ALL | 33°54', | | 1931 |

87A7108

| NNE 0.5 3.4 0.6 0.2 NNE 0.0 0.9 0.2 0.1 NNE 0.0 0.9 0.2 0.1 NNE 0.0 0.9 0.2 0.1 NNE 0.9 0.2 0.1 NNE 0.9 0.2 0.4 0.6 0.3 NNE 0.9 0.2 0.4 NNE 0.9 0.3 NNE 0.2 0.2 0.2 NNE 0.2 0.2 NNE 0.2 0.2 NNE 0.2 0.2 NNE 0.2 0.2 NNE 0.2 NN | 0.00 | - | | * | CAIN |
|--|---------|---|---|-------|-------|
| 20000000000000000000000000000000000000 | 0.2 | | | | SPEED |
| 00000000000000000000000000000000000000 | 0.1 | | | 4.7 | 6.8 |
| 000000000000000000000000000000000000000 | | | | 1.2 | 10 |
| 000000000000000000000000000000000000000 | | | | 2.2 | 4.9 |
| 0.9 6.2 0.1 4.0 0.9 6.3 | | | | 1.0 | 6.8 |
| 0.0 6.3 | | | | 7.5 | |
| 0.9 6.3 | | | | 7 7 | 7.6 |
| 0.2 1.6 | | | | | 0 |
| | | | | | 70 |
| 2.3 | | | | 000 | ٦٢ |
| 1.3 | | | | 9-1 | 6.3 |
| 3.7 | | | | 4.4 | S. |
| | | | | 4 | 0 |
| 0.7 5.0 | | | | | L. |
| 0.2 | | | | | 100 |
| 1.7 13.9 9.6 | 1.6 0.2 | | | 27.0 | 2 |
| NNW 0.2 5.5 1.7 (| 0.2 0.1 | | | 7.7 | 0 |
| | | | | | |
| CALM | | X | X | 13.9 | 7.6 |
| 13.9 7.6 62.2 14.1 | 0 1 0 3 | | | 100.0 | |

PERCENTAGE FREQUENCY OF WIND (FROM HOURLY OBSERVATIONS) DIRECTION AND SPEED

| | ALL | BARRE | ALL | BOURS (L.E.T.) | | | | WIND WIND SPEED | 9.9 | 5.4 | 6.0 | 6.3 | 5.6 | 5.4 | 5.9 | 6.2 |
|--------------------------|-------------------|--------------|-------------|----------------|-------------------------|----------|---------------------|--|-----|-----|-----|-----|-----|-----|-----|-----|
| | | | | 1000 | | | | N. | 5.2 | 5.1 | 6.1 | 7.6 | 5.7 | 4.8 | 6.0 | 5.9 |
| | | | | | | | | 56 | | | | | | | | |
| | | | | | | | | 48-55 | | | | | | | | |
| | 22 | WLARG | | | 1111 | | | 41-47 | | | | | | | | |
| | 2/31/5 | | | | Radar Hill | | | 34-40 | | | | | | | | |
| 2 | 1/1/55 - 12/31/57 | | | | щ | | Q. | 28-33 | | | | | | | | |
| CHOIL HOURS COSEN COLONS | 1/1/ | | ATHER | 4.58 | | LOCATION | HEIGHT ABOVE GROUND | 22-27 | | | | | | | | |
| 200 | | | ALL WEATHER | CLASS | 1500 | LOCA | HEIGHT AB | 17-21 | | | | | | | | |
| 1 | | | | | 30 101 | | | 11-16 | | | | | | | | |
| | | PARK. | | | 35° 45', 118° 10', 1500 | | | 7-10 | | | | | | | | |
| | des | STATION HAME | | | 330 4 | | | 1-3 4-6 7-10 11-16 17-21 22-27 28-33 34-40 41-47 48-55 | | | | | | | | |
| | Palos Verdes | | | ı | | 1 | | 1-3 | | | | - | | | | |
| | Pal | | | | | | | NET DIR. | z | NNE | n Z | ENE | , 3 | 828 | SE | SSE |
| | PVH | STATISMS. | | | | | | | | | | | | | | |

TOTAL NUMBER OF OBSERVATIONS 12,941 100.1 from South Coast Air Quality Management District 9420 Telstar Avenue El Monte, CA 91731 Data

These data are available on an hourly basis.

Note:

6.9

16.2

2.

WSW WAW

≩

NNW MY5

ž

SSW

š

| ALL | ALL | BOUND (L.R.T.) | | | | | |
|-------------|-------------|----------------|--------------------|----------|-----|---------------------|--|
| 1959 – 1970 | ALL WEATHER | CLASS | 515 N. Lake Avenue | LOCATION | 40, | HEIGHT ABOVE GROUND | |
| FDEC3 | | | | | | | |
| Pasadena | | | | | l | | |
| PAS 110W | | | | | | | |

TOTAL NUMBER OF OBSERVATIONS 92,230 Data from South Coast Air Quality Management District 9420 Telstar Avenue El Monte, CA 91731

These data are available on an hourly basis.

Note:

PERCENTAGE FREQUENCY OF WIND (FROM HOURLY OBSERVATIONS) DIRECTION AND SPEED

| ALL | MONTH | ALL | BOURS (L.S.T.) | | | |
|------------------------------|--------------|-------------|----------------|-----------------------|----------|--|
| 48-64 | TEARS | ALL WEATHER | CLASS | | LOCATION | |
| PASO ROBLES COUNTY APT CALIF | STATION NAME | ALL W | 3 | 35040', 120038', 807' | L 0 | |

93209

| | _ | _ | _ | - | | - | - | | - | _ | - | _ | _ | _ | _ | - | | |
|-------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|------|-----|-----|------|-----|-----------|-------|
| MEAN WIND SPEED | 6.1 | 5.3 | 5.3 | 6.7 | 6.9 | 6.4 | 5,3 | 6.5 | 8.6 | 10.3 | 9.1 | 10.5 | 7.8 | 7.8 | 8.7 | 8.8 | | 5.5 |
| ηξ | 2.5 | 2.0 | 1.9 | 2.0 | 3.2 | 2.3 | 2.6 | 1.5 | 4.4 | 5.9 | 5.9 | 4.6 | 4.5 | 6.5 | 12.1 | 0.9 | 32.2 | 100.0 |
| 95 | | | | | | | | | | | | | | | | | X | |
| 48 - 55 | | | | | | | | | | | | | | | | | X | |
| 41 - 47 | | | | | | | | | | | | | | | | | \bigvee | |
| 34 - 40 | | | | | | | | | | | | 0 | | | | | \bigvee | 0. |
| 28 - 33 | | | | | 0. | | | | | 0. | 0. | 0. | 0. | 0. | 0. | 0. | \bigvee | 0. |
| 22 - 27 | 0. | 0 | | 0. | 0. | 0. | 0. | 0. | 0 | | 0. | .3 | .1 | 0. | .1 | .1 | X | 9. |
| 17 - 21 | 0 | 0 | 0. | 0. | 0. | 0. | 0. | 0. | . 2 | 5. | .3 | . 5 | .2 | , | .5 | 4. | X | 2.9 |
| 11 - 16 | .2 | . 1 | .1 | .3 | 4. | .2 | 7. | .2 | 1.0 | 2.1 | 1.6 | 1.1 | 9. | 1.2 | 2.8 | 1.4 | X | 13.4 |
| 7 - 10 | 9. | 4 | . 4 | .5 | 1.0 | .7 | .5 | ۳. | 1.4 | 1.8 | 1.9 | 1.1 | 1.2 | 2.3 | 4.4 | 1.9 | X | 20.4 |
| 4.6 | 1.1 | 6. | 6. | . 7 | 1.3 | 6 | 1.2 | 9. | 1.3 | 1.1 | 1.6 | 1.0 | 1.8 | 2.1 | 3.7 | 1.6 | X | 21.8 |
| 1.3 | .5 | 9. | .5 | . 4 | .5 | .5 | 8. | 4. | 4. | 4. | .5 | .5 | 9. | .7 | 9. | .7 | X | 8.7 |
| SPEED (KNTS) DIR, | z | Z Z | ž | ENE | w | ESE | SE | SSE | v | SSW | ws. | wsw | * | WHW | WW | WNW | CALIA | 32.2 |

FEDERAL BUILDING - ASHEVILLE, N.C., 28801 DATA FROM NATIONAL CLIMATIC CENTER

141450

TOTAL NUMBER OF OBSERVATIONS

-183-

PERCENTAGE FREQUENCY OF WIND (FROM HOURLY OBSERVATIONS) DIRECTION AND SPEED

June 1943 thru September 1944 ALL WEATHER Pescadero - Pidgeon Point STATION NAME.

87A7104

4631 1220221, 370121

ALL BOUSS (LS.T.)

HEIGHT ABOVE GROUND

| MPH DIR. | 1-3 | 4-12 | 13-24 25-31 | 25-31 | 32-46 | 74 1 | | | | | | × | WIND |
|-------------|-----------|-----------|-------------|-------|-------|------|---|---|---|---|---|-------|------|
| z | 0.4 | 7.1 | 3.1 | 0.0 | | | | | | | | 10.6 | 10.7 |
| N.N. | 0.3 | 4.7 | 1.7 | 0.0 | 0.1 | 0.0 | | | | | | 6.9 | 10.4 |
| Z | 0.3 | 0.4 | 0.3 | 0.0 | 0.0 | 0.1 | | | | | | 7.4 | 8. |
| ENE | 0.2 | 1.9 | 0.1 | | | | | | | | | 2.1 | 9.9 |
| , , | 0.3 | 1.0 | 0.0 | | | | | | | | | 1.3 | 5.8 |
| ESE | 0.3 | 1.3 | 0.1 | | | | | | | | | 1.8 | |
| SE | 0.3 | 2.4 | 0.7 | 0.0 | | | | | | | | 3.3 | 7.6 |
| SSE | 7.0 | 8.4 | 6.4 | 0.3 | 0.1 | | | | | | | 9.7 | 12.6 |
| s | 0.3 | 3.4 | 1.5 | 0.0 | | | | | | | | 5.2 | 10.4 |
| SSW | 0.3 | 2.7 | 0.4 | | | | | | | | | 3.4 | 8 |
| SW | 0.2 | 1.3 | 0.1 | | | | | | | | | 1.7 | 6.7 |
| WSW | 0.3 | 0.8 | 0.1 | | | | | | | | | 1.2 | 9 |
| * | 0.3 | 1.1 | 0.2 | 0.0 | | | | | | | | 1.6 | 7.1 |
| WNW | 10.4 | 4.4 | 1.3 | 0.0 | 0.0 | | | | | | | 6.2 | 8 |
| MM | 10.4 | 9.9 | 5.2 | 7.0 | 0.2 | | | | | | | 12.7 | 12.6 |
| MNM | 0.5 | 11.3 | 15.0 | 7.0 | 0.0 | | | | | | | 27.2 | 13.5 |
| | | | | | | | | | | | | | |
| CALM | \bigvee | \bigvee | X | X | X | X | X | X | X | X | X | 4.0, | |
| 7 0 | 2 | 000 | 0 78 | 0 - | 77.0 | 0.1 | | | | | | 100.0 | 11.1 |

FEDERAL BUILDING - ASHEVILLE, N.C., 28801 DATA FROM NATIONAL CLIMATIC CENTER

TOTAL NUMBER OF OBSERVATIONS

| ALL | | ALL | 8008 | | | | |
|-------------|--------------|-------------|-------|----------------------|----------|-----|--------------------|
| 1967 - 1976 | STATION NAME | ALL WEATHER | CLASS | 38°01', 121°51', 10' | LOCATION | 251 | GAUCORG RVORA FIRE |

| MEAN WIND SPEED | 3 | ~ | ~ | 7 | 7 | 7 | . 2 | 9 | 7 | ∞ | 10 | 0 | Σ) | 9 | 9 | 47 | 7 | |
|-----------------------|---|----|---|-----|---|-----|-----|-----|---|----------|----|-----|----|-----|----|-----|-----------|--|
| × | 2 | m | 5 | 5 | 4 | ~ | CJ | · C | 9 | 11 | 16 | 50 | 10 | 2 | ~ | CV | 100 | |
| A1 26 | | | | | | | | | | | | | | | | | X | |
| 48 - 55 | | | | | | | | | | | | | | | | | X | |
| 41 - 47 | | | | | | | | | | | | | | | | | \bigvee | |
| 34 - 40 | | | | | | | | | | | | | | | | | \bigvee | |
| 28 - 33 | | | | | | | | | | | | | | | | | \bigvee | |
| 22 - 27 | | | | | | | | | | | | | | | | | \bigvee | |
| 17 - 21 | | | | | | | | | | | | | | | | | \bigvee | |
| 11 - 16 | | | | | | | | | | | | | | | | | \bigvee | |
| 7 - 10 | | | | 1 | | | | | | | | | | | | | X | |
| 9.4 | | | | | | | | | | | | | | | | | X | |
| 1.3 | | | | | | | | | | | | | | | | | X | |
| MPH MPH DIR. | z | NN | ž | ENE | | ESE | SE | SSE | s | SSW | SW | WSW | * | WNW | WW | WNW | Calm | |

DATA FROM DOW Chemical Company

TOTAL NUMBER OF OBSERVATIONS

| ALL | Br0474 | ALL | BOVES (L.B.T.) | | | | |
|--|--------------|-------------|----------------|---------------------|----------|---------|---------------------|
| Pittsburg Power Plant, CA December 1970 thru November 1973 | STATION MANÉ | ALL WEATHER | CLA38 | 38031, 1210541, 201 | LOCATION | 33 feet | MEIGHT ABOVE GROUND |

37A 7106

| MPH DIR. | 1-3 | 4-7 | 8-12 | 13-18 | 19-54 | 13-18 19-24 25-33 34-44 | 34-44 | | | | | × | MEAN WIND SPEED |
|-------------|------|-----------|---------------|-----------|-----------|-------------------------|-----------|---|---|---|---|------|-----------------------|
| z | 80 | 0.7 | 0.5 | 9.0 | 0.3 | 0.2 | 0.0 | | | | | 3.1 | 10.1 |
| ZZZ | 0.5 | 7.0 | 0.2 | 0.1 | 0.0 | 0.0 | | | | | | 1.2 | 0.0 |
| 2 | 0.7 | 0.7 | 0.1 | 0.0 | 0.0 | | | | | | | 1.6 | 4.8 |
| ENE | 7.0 | 1.3 | 0.3 | 0.0 | 0.0 | | | | | | | 2.4 | 4.8 |
| | 1.5 | 2.7 | 6.0 | 0.5 | 0.0 | 0.0 | | | | | | 5.3 | 5.5 |
| ESE | 1.3 | 1.7 | 1.0 | 0.3 | 0.1 | 0.0 | | | | | | 4.5 | 6.5 |
| SE | 1.4 | 80 | 0 | | 0.0 | | | | | | | 2.8 | 5.5 |
| SSE | 6.0 | 0.4 | 0.1 | 0.1 | 0.0 | | | | | | | 1.6 | 4.4 |
| s | 0.1 | 0.4 | 0.3 | 0.1 | 0.1 | 0.0 | | | | | | 2.0 | 5 |
| SSW | 1.0 | 9.0 | 0.7 | 0.5 | 0.2 | 0.0 | 0.0 | | | | | 3.0 | 7.9 |
| AS. | 1.1 | 1 8 | $\overline{}$ | 4.4 | 0.7 | 0.1 | 0.0 | | | | | 11.9 | 11.3 |
| WSW | 0.0 | 5.6 | 7.4 | 8.2 | 1.9 | 0.0 | | | | | | 21.1 | 12,2 |
| * | 1.0 | 3.0 | 7.6 | 8.0 | 1 9 | 0.0 | | | | | | 22.3 | 12.1 |
| WHW | 0.7 | 1.8 | 3.3 | 3.8 | 0.4 | 0.0 | | | | | | 10.0 | 11,0 |
| WW | 0.7 | 1.2 | 6.0 | 0.8 | 0.1 | 0.0 | | | | | | 3.8 | Φ |
| MNN | 0.7 | 0.5 | 0.3 | 0.4 | 0.4 | 0,1 | | | | | | 2.4 | 10.1 |
| | | | | | | | | | | | | | |
| CAUA | X | \bigvee | X | \bigvee | \bigvee | \bigvee | \bigvee | X | X | X | X | 6.0 | 10.1 |
| 6.0 | 15.2 | 20.6 | 280 | 28.6 | 6.1 | 0.5 | 0.0 | | | | | 6.66 | |

87A7104

| Step | 2-1 | 21-7 | 16-31 | 16-31 22-47 | > 47 | | | | | | | | MEA |
|------|-----|------|-------|-------------|------|---|---|---|-----------|---|---|-------|-------|
| DIR. | 7 | 1 | 1 | - | - | | | | | | | R | SPEED |
| z | 0.0 | 13.7 | 12.9 | 6.0 | 0.0 | | | | | | | 28.4 | 15.7 |
| NX. | 0.0 | 0.4 | 0.4 | 0.0 | | | | | | | | 0.8 | 15.5 |
| ž | 1.3 | 6.7 | 2,3 | 0.2 | 0.0 | | | | | | | 10.5 | 11.2 |
| Z. | 0.1 | 0.1 | 0.0 | | | | | | | | | 0.2 | 7.4 |
| - | 0.8 | 2.4 | e.0 | 0.0 | | | | | | | | 3.5 | g•) |
| ESE | 0.0 | 0.1 | 0.0 | 0.0 | | | | | | | | 1.0 | 13.9 |
| SE | 1.0 | 10.9 | 5.7 | 1.1 | 0.1 | | | | | | | 18.8 | 14.4 |
| SSE | 0.1 | 0.5 | 0.1 | 0.0 | | | | | | | | 0.7 | 11.4 |
| so. | 1.5 | 5.7 | 0.8 | 0.1 | | | | | | | | 8.1 | 8°L |
| SSW | | 0.1 | 0.1 | | | | | | | | | 0.2 | 12.7 |
| S.W. | 9.0 | 1.5 | 0.5 | 0.0 | 0.0 | | | | | | | 2.7 | 9.3 |
| WSW | 0.0 | 0.0 | 0.0 | | | | | | | | | 0.1 | 6 |
| * | 0.7 | 1.1 | 0.2 | | | | | | | | | 1.9 | ę• |
| WRW | 0.1 | 0.1 | | | | | | | | | | 0.1 | ڼ |
| MW | 6.0 | 0.7 | 11.2 | 1.5 | 0.1 | | | | | | | 20.8 | 18. |
| MNN | 0.0 | 0.7 | 1.0 | 0.2 | | | | | | | | 2.0 | 19.4 |
| | | | | | | | | | | | | | |
| CALM | X | X | X | X | X | X | X | X | \bigvee | X | X | 1.0 | 14.1 |
| 1.0 | 8.0 | 51.1 | 35.5 | 4.2 | 0.2 | | | | | | | 100.0 | |

PATAFROM National Climatic Center Federal Building, Asheville, NC 28801

TOTAL NUMBER OF OBSERVATIONS

| ALL | ALL | BOURS (LR.T. |
|--|-------------|--|
| Point Arena, CA August 1970 thru July 1972 | ALL WEATHER | 38°56', 123°42', 238' LOCATION 16' HEIGHT ABOVE GROUND |

STATION

| MPH MPH DIR. | 1-3 | 1-4 | 8-12 | 8-12 13-18 19-24 | 19-54 | 25-50 | | | | | | 34 | MEAN WIND SPEED |
|--------------------|-----|------|------|------------------|-------|-------|-------------------|-------------------|-------------------|---|---|------|-----------------------|
| z | 0.3 | 1,4 | 5.9 | 13.2 | 7.6 | 0.0 | | | | | | 30.0 | 16.0 |
| W.Z | 0.2 | 1.4 | 2.8 | 1.2 | 0.5 | 0.0 | | | | | | 6.1 | 10.6 |
| ž | 0.3 | 1.3 | 1.2 | 0.0 | 0.0 | 0.0 | | | | | | 2.9 | 6.8 |
| ENE | 0.2 | 0.7 | 0.3 | 0.0 | 0.0 | 0.0 | | | | | | 1.3 | 5.8 |
| , MI | 2.0 | 0.8 | 0.3 | 0.1 | 0.1 | 0.0 | | | | | | 2.0 | 5.5 |
| ESE | 0.8 | 1.0 | 0.3 | 0.2 | 0.1 | 0.1 | | | | | | 2.4 | 7,2 |
| SE | 1.0 | 5.6 | 3.6 | 3.0 | 1.7 | 1.5 | | | | | | 13.4 | 13.3 |
| SSE | 0.5 | 1.2 | 6.0 | 6.0 | 0.5 | 0.3 | | _ | | | | 4.3 | 11.9 |
| s | 9.0 | 0.8 | 0.4 | 0.3 | 0.2 | 0.1 | | | - | | | 2.4 | 4.6 |
| SSW | 0.2 | 0.4 | 0.2 | 0.1 | 0.1 | 0.0 | | | | | | 1.0 | 8.1 |
| NS. | 4.0 | 0.4 | 0.3 | 0.1 | 0.1 | 0.0 | | | | | | 1.2 | 7.3 |
| WSW | 1.2 | 0.2 | 0.1 | 0.1 | 0.0 | 0.0 | | | | | | 0.6 | 0.9 |
| * | 7.0 | 0.3 | 0.1 | 0.1 | 0.1 | 0.0 | | | | | | 1.0 | 7.2 |
| WHW | 0.3 | 4.0 | 0.1 | 0.1 | 0.1 | 0.0 | | | | | | 1.1 | 00. |
| MM | 0.3 | 1,1 | 1.0 | 0.7 | 0.4 | 0.0 | | | | | | 3.6 | 10.3 |
| NNW | 0.2 | 1.4 | 4.4 | 8.7 | 8.3 | 3.6 | | | | | | 26.6 | 17.6 |
| | | | | | | | | | | | | | |
| CALIA | X | X | X | X | X | X | $\langle \rangle$ | $\langle \rangle$ | $\langle \rangle$ | X | X | 0.1 | 14.0 |
| 0.1 | 6.9 | 15.4 | 22.0 | 28.7 19.7 | 19.7 | 7.4 | | | | | | 6.66 | |

| YEARS | | | | |
|--------------|-------------|-------|---------------------|----------|
| STATION MAMS | ALL WEATHER | CLABS | 34711, 120351, 3711 | LOCATION |

| SPEED | 3-7 | 8-12 | 13-20 | 21-30 | 21-30 31-40 | 07 < | | | | | N | WIND |
|-------|-----------|-----------|-------|-------|-------------|------|-------------------|-----------|---|---|------|------|
| z | 2.0 | 9.0 | 0.2 | 0.0 | | | | + | - | | 2.7 | 200 |
| ZXZ | 9.0 | 0.2 | 0.1 | | | | | | | | 6.0 | |
| w Z | 0.5 | 0.1 | 0.0 | | | | | | | | 0.6 | |
| ENE | 0.5 | 0.0 | 0.0 | | | | | | | | 9.0 | |
| . 3 | 4.4 | 6.0 | 0.0 | | | | | | | | 5.3 | |
| ESE | 9.9 | 1.5 | 0.3 | 0.1 | | | | | | | 8.4 | |
| SE | 1.5 | 0.3 | 7.0 | 0.1 | | | | | | | 2.2 | |
| SSE | 0.2 | 0.3 | 0.3 | 0.0 | 0.0 | | | | | | 6.0 | |
| S | 0.3 | 0.2 | 0.2 | 0.0 | 0.0 | | | | | | 0.7 | |
| SSW | 0.2 | 0.2 | 0.1 | 0.0 | | | | | | | 0.5 | |
| SW | 0.4 | 0.3 | 0.1 | | | | | | | | 6.0 | |
| WSW | 0.8 | 0.5 | 0.2 | | | | | | | | 1.5 | |
| * | 3.5 | 3.0 | 0,5 | 0.0 | | | | | | | | |
| WHW | 0.9 | 6.5 | 1.6 | 0.0 | | | | | | | 14.2 | |
| WW | 9.5 | 2.6 | 6.7 | 0.5 | 0.0 | | | | | | 26.3 | |
| NNW | 5.4 | 3.1 | 1.7 | 0.0 | 0.0 | | | | | | 9.4 | |
| | | | | | | | | | | | | |
| CALM | \bigvee | \bigvee | X | X | X | X | $\langle \rangle$ | \bigvee | X | X | 17.9 | |
| 17.9 | 42.7 | P7.4 | 12.3 | 0.7 | 0.0 | | | | 1 | | | |

DATA FROM NATIONAL CLIMATIC CENTER FEDERAL BUILDING - ASHEVILLE, N.C., 28801

35,036

TOTAL NUMBER OF OBSERVATIONS

-189-

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

| Point Fermin sains mas ALL WEATHER CLASS 33043', 118017', 36' LOGATION | September 1938 thru December | VZA88 | ALL | MOURE (L.S.T.) | | | |
|---|------------------------------|---------------|-------------|----------------|----------------------|----------|---------------|
| 81 | | STATION NAME. | ALL WEATHER | CLASS | 33743', 118717', 36' | LOCATION | OXIOOR HUDINE |

| WIND WIND SPEED | 5.3 | 3.9 | 4.5 | φ. 1 | 4 | 4.5 | 5.8 | 4.9 | 5.2 | 4.9 | 6.3 | 7.4 | 9.6 | 11.6 | 9.5 | 7.9 | 9•9 | |
|-----------------------|-----|--------|------|---------|-----|---------------|------|-----|-----|-----|-----|-----|--------------|------|------|-----|-----------|--------|
| × | 3.5 |). • T | 7.11 | 2.4 | 2.5 | 0.7 | 2.8 | 0.8 | 2.7 | 9.0 | 2.4 | 1.7 | 9.7 | 10.5 | 25.8 | 2,3 | 15.9 | 1.00.0 |
| | | | | | | | | | | | | | | | | | X | |
| | | | | | | | | | | | | | | | | | X | |
| | | | | | | | | | | | | | | | | | X | |
| | | | | | | | | | | | | | | | | | X | |
| | | | | | | | | | | | | | | | | | X | |
| | | | | | | | | | | | | | | | | | X | |
| L†(< | | | | | | | 0.0 | | | | | | | 0.0 | | | X | 0.0 |
| 32-47 | 0.0 | | | | | | .000 | | | | 0.0 | 0.0 | 0.0 | 0.1 | 0.2 | 0.0 | X | 4.0 |
| 16-31 | 0.1 | | 0.1 | 0.0 | 0.0 | | 0.0 | 0.1 | 0.1 | | 0.1 | 0.1 | 6*0 | I.6 | 3.4 | 0.2 | \bigvee | 6.7 |
| 4-15 | 1.6 | 9.0 | 5.1 | 1.3 | 2.7 | 0.3 | 1.5 | 0.5 | 1.3 | 0.3 | 1.5 | 1.2 | 1. 4. | 6.7 | 16.9 | 1.4 | \bigvee | 51.6 |
| 1-3 | 1.8 | 1.1 | 0.9 | 1.1 | 2.7 | ħ ° 0. | 1.1 | 0.3 | 1.3 | 0.3 | 0.8 | 0.4 | 1.3 | 6.0 | 5.3 | 9.0 | \bigvee | 25.4 |
| NEHD DIR. | z | N. | ž | ENE | . w | ESE | 38 | 358 | s | SSW | SW. | WSW | * | WHW | MM | MNW | CALM | 15.9 |

DATA FROM NATIONAL CLIMATIC CENTER FEDERAL BUILDING - ASHEVILLE, N.C., 28601

TOTAL NUMBER OF OBSERVATIONS 9, 392

-190-

| ALL | posta | ALL | movas (L.E.T.) | |
|--------------------------------|--------------|-------------|-------------------------|---------------------|
| August 1938 thru December 1941 | TLARS | ALL WEATHER | CLASS 51 LOCATION | HEIGHT ABOVE GROUND |
| Point Hueneme, CA. | STATION MANG | ALL | 34,009,1190,126,16 | HEIGH |

874 7104

| | | | | 4.1 8.2 | | | | | | | | | | _ | | 2.3 5.2 | 8.3 7. | |
|----------------------|--------|------|-----|---------|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|-----|---------|--------|--|
| | | | | | | | | | | | | | | | | | X | |
| | | | | | | | | | | | | | | | | | X | |
| | | | | | | | | | | | | | | | | | X | |
| 247 | | | | | | | | | | | | | | | | | X | |
| 32-47 > 47 | | | 0.1 | | 0.0 | 0.0 | .00 | | | | | | 0.2 | 0.1 | | | X | |
| 16-31 | 0.1 | 0.0 | 0.5 | 0.7 | 0.3 | 0.1 | 0.3 | 0.0 | 0.2 | 0.1 | 0.2 | 0.3 | 5.6 | 1.1 | 0.5 | 0.0 | X | |
| 4-15 | 0 % | 0.8 | 4.4 | 2.0 | 1.3 | 9.0 | 1.9 | 0.9 | 2.3 | 1.9 | 4.0 | 4.2 | 14.1 | 9.5 | 0.9 | 1.2 | X | |
| 1-3 | 3.8 | 2.1 | 5.7 | 1.4 | 1.2 | 0.4 | 0.7 | 0.3 | 1.1 | 0.7 | 1.3 | 0.5 | 1.9 | 1.4 | 5.6 | 1.1 | X | |
| SPEED MPH DIR. | z | N.N. | Z | 3V3 | . 4 | 353 | SE | SSE | S | SSW | SW | WSW | * | WHW | WW | MNW | CALM | |

DATA FROM NATIONAL CLIMATIC CENTER FEDERAL BUILDING - ASHEVILLE, N.C., 28801

| ALL | Boata | ALL | B0086 (L.S.T.) | | |
|----------------------------------|--------------|-------------|-----------------------|----------|---------------------|
| February 1938 thru November 1941 | YEARS | ALL WEATHER | 37°32', 122°531', 62' | LOCATION | HEIGHT ABOVE GROUND |
| Point Montara, CA | STATION HAME | | 37°32' | | |

8747104

| SPEED MPH Sug | 1-3 | 4-15 | 4-15 16-31 | 32-47 | 74 < | | | | | | | ж | MEAN WIND SPEED |
|---------------------|-----|------|------------|-------|------|---|---|---|---|---|---|-------|-----------------------|
| | - | 6 - | 0 | | | | | | | | | 1.6 | 0.0 |
| 2 | | | 1 | | | | | | | | | 0.0 | 10.6 |
| ZZ | 300 | 5 0 | 100 | 5 | | | | | | | | 0, - | 0 |
| Z | 7.0 | • | 7.0 | 0 | | | | | | | | | |
| Z. | 0.0 | 0.3 | 0.1 | 0.0 | | | | | | | | 0.4 | 10.4 |
| | 7.0 | 2,3 | 0.2 | | | | | | | | | 2.9 | 2. |
| ESE | 0.1 | 0.8 | 0.0 | | | | | | | | | 0.9 | 7.2 |
| SE | 1.0 | 5.2 | 1.0 | 0.1 | | | | | | | | 7.3 | 10.1 |
| SSE | 0.3 | 2.1 | 0.7 | 0.1 | | | | | | | | 3.2 | 12,2 |
| v | 0.8 | 7.1 | 1.2 | 0.1 | | | | | | | | 9.5 | 10.4 |
| SSW | 0.2 | 1.3 | 0.1 | 0.0 | | | | | | | | 1.7 | 9.7 |
| 3× | 6.0 | 3.1 | 0.3 | 0.0 | | | | | | | | 4.4 | 7.7 |
| WSW | 0.2 | 9.0 | 0.1 | 0.0 | | | | | | | | 0.9 | 8.6 |
| * | 0.7 | | 9.0 | 0.0 | | | | | | | | 0.9 | 4.6 |
| WAW | 0.3 | 2.6 | 0.5 | .0.0 | | | | | | | | 3.4 | 11.2 |
| MA | 2.3 | 25.5 | 4.2 | 0.4 | | | | | | | | 32.3 | 10.8 |
| MNN | 0.2 | 2.5 | 0.3 | 0.0 | | | | | | | | 2.7 | 11.1 |
| | | | | | | | | | | | | | |
| CALM | X | X | X | X | X | X | X | X | X | X | X | 27.8 | 8.0 |
| 21.8 | 7.8 | 59.9 | 9.7 | 6.0 | | | | | | | | 0.001 | |

DATA FROM NATIONAL CLIMATIC CENTER FEDERAL BUILDING - ASHEVILLE, N.C., 28801

TOTAL NUMBER OF OBSERVATIONS 10, 829

-192-

93111

| ALL | À | ALL | ROURS | | | | |
|----------------------------------|--------------------|-------------|-------|--|----------|--------------------------------|---------------------|
| POINT MUGU, CALIFORNIA PMR 60-72 | STATION HAME YEARS | ALL WEATHER | CLASS | 34 ⁰ 07', 119 ⁰ 07', 10' | LOCATION | 93' until 1964, 13' since 1964 | HEIGHT ABOVE GROUND |

| MEAN WIND SPEED | 4.0 | 4.7 | 7.0 | 8 8 | 5.7 | 9.9 | 8,6 | 7.5 | 9.9 | 6.2 | 6.1 | 6.8 | 8.2 | 7.1 | 4.6 | 4.1 | | 5.6 | |
|-------------------------|-----|------|-----|-----|-----|-----|-----|------|-----|-----|------|-----|------|-----|------|-----|-----------|-------|--|
| ъk | 8.0 | 7.3 | 7.7 | 4.5 | 1.3 | 80 | 2.2 | 2.9 | 4.2 | 2.8 | 3.2 | 5.2 | 18.7 | 7.8 | 4.5 | 4.1 | 14.8 | 100.0 | |
| 99 A1 | | | | | | | | | | | | | | | | | \bigvee | | |
| 48 - 55 | | | | | | | | | | | | | | | | | \bigvee | | |
| 41 - 47 | | | | 0 | | | | | | | | | | | | | \bigvee | 0. | |
| 34 - 40 | | 0. | O | 0 | | | | 0. | | | | | 0. | | | | \bigvee | 0. | |
| 28 - 33 | | 0 | 0 | 0. | | | 0. | 0 | | | | | 0. | 0. | | | X | .1 | |
| 22 - 27 | | 0 | . 2 | , 2 | 0 | 0 | 0 | 0 | 0. | 0. | 0. | 0 | .1 | .1 | 0. | | X | . 7 | |
| 17 - 21 | 0. | 0 | . 5 | . 4 | 0. | 0. | 7. | .1 | 7. | 0. | 0. | 0. | .5 | . 2 | 0. | 0. | X | 2.0 | |
| 11 . 16 | | . 2 | 6. | 6. | . 2 | 7 | • | .5 | | -: | .1 | 4 | 3.0 | 1.1 | .1 | .1 | X | 8.7 | |
| 7 - 10 | 88 | 1.0 | 1.0 | 9 * | . 2 | .2 | 80 | 1.0. | 1.4 | 1.0 | 1.2 | 2.1 | 8.2 | 2.4 | .7 | 4. | X | 23.0 | |
| 9.4 | 3.5 | 3.1 | 2.4 | 1.0 | 4 | .3 | 9. | 1.0 | 1.6 | 1,3 | 1.4 | 2.0 | 5.1 | 2.6 | 1.9 | 1.8 | X | 29.9 | |
| 1.3 | 3.7 | 2.9 | 2.6 | 1,3 | 5. | .2 | .3 | . 4 | . 7 | 4. | .5 | 9. | 1.7 | 1.5 | 1.8 | 1.9 | X | 20.9 | - |
| SPEED (KNTS) DIR. | z | N.X. | | ENE | w | ESE | SE | SSE | s | SSW | > AS | WSW | * | WNW | N.N. | WNW | CALM | 14.8 | The state of the s |
| | | | | | | | | | | | | | | | | | | | |

109069

TOTAL NUMBER OF OBSERVATIONS

| ALL | BOATH | ALL | BOURS (L.S.T.) | | | | |
|------------------------------|--------------|-------------|----------------|----------------------|----------|-----|---------------------|
| June 1938 thru November 1942 | YEARS | ALL WEATHER | CLASS | 35°40', 121°17', 69' | LOCATION | | HEIGHT ABOVE GROUND |
| Point Piedras Blancas | STATION HAME | A | | 35040', 1 | | 181 | GH. |

| MAHO DIR. | 1-3 | 4-15 | 16-31 | 32-47 | 747 | | | | | | | × | MEAN WIND SPEED |
|--------------|--------|------|-------|-------|-----|---|---|---|---|---|---|------------|-----------------------|
| z | 2.2 | 4.4 | 0.2 | | | | | | | | | 6.9 | 5.5 |
| NNE | 0.1 | 0.3 | 0.0 | | | | | | | | | 7.0 | J•7 |
| w Z | 1.1 | 1.6 | 0.1 | | | | | | | | | 2.7 | 2.9 |
| ENE | 0.2 | 0.7 | | | | | | | | | | 6.0 | 5.7 |
| . 23 | 1.7 | 2,4 | 0.2 | | | | | | | | | 4.3 | 5.6 |
| ESE | 0.2 | 1.5 | 0.3 | 0.0 | | | | | | | | 2.0 | 9.6 |
| SE | 2,2 | 7.9 | 1.4 | 0.2 | | | | | | | | 11.7 | 8.8 |
| SSE | 0.1 | 6.0 | 0.4 | | | | | | | | | 1.0 4 | 11.6 |
| s | 1.1 | 20 | 0.2 | | | | | | | | | 4.1 | 6.9 |
| SSW | 0.0 | 0.5 | 0.0 | 0.0 | | | | | | | | 0.5 | D•9 |
| NS. | † °0 ∥ | 0.8 | 0.0 | | | | | | | | | 1.3 | ე•¢ |
| WSW | 0.1 | 0.4 | | | | | | | | | | 0.4 | 6.5 |
| * | 1.4 | 3.4 | 7.0 | | | | | | | | | 2.5 | 6.9 |
| WHW | 0.1 | 1.9 | 0.8 | 0.0 | | | | | | | | 5.9 | 12.8 |
| MW | 5.4 | 26.9 | 12.7 | 6.0 | 0.0 | | | | | | | 45.9 | 0 .4. |
| WNN | 1.0 | 4.2 | 2.1 | 0.0 | | | | | | | | ± • 0 | 13°4 |
| | | | | | | | | | | | | | |
| CALM | X | X | X | X | X | X | X | X | X | X | X | 3.0 | 10.7 |
| 0.6 | 13.4 | 60.7 | 27.8 | 1.2 | 0.0 | | | | | | | 100.0 | |

DATA FROM NATIONAL CLIMATIC CENTER FEDERAL BUILDING - ASHEVILLE, N.C., 28801

TOTAL NUMBER OF OBSERVATIONS

| ALL | Beet# | ALL | Month (LE.T.) | |
|----------------------------------|--------------|-------------|-----------------------|---------------------|
| February 1938 thru December 1942 | 72.049 | ALL WEATHER | 38°00', 123°00', 259' | HEIGHT ABOVE GROUND |
| Point Reyes, CA | STATION NAME | | 38,0 | |

874.746-6

| | 00.1 00.2 00.2 00.5 00.5 00.8 |
|---|--|
| 2.5 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0 | 5.9 1.4 0.1 2.6 0.5 0.0 0.6 0.2 0.0 3.1 0.3 0.0 0.5 0.0 0.0 1.0 0.2 0.0 1.0 0.2 0.0 2.6 0.4 0.0 2.6 0.4 0.0 2.7 0.0 |
| | vii no no no no no no no no no no no no no |

ON TO LE ME LO MONTE O DE LA VILLE

DATA FROM NATIONAL CLIMATIC CENTER FEDERAL BUILDING – ASHEVILLE, N.C., 28801

TOTAL NUMBER OF OBSERVATIONS

12,466

*Note: Weather Bureau Reports mean of 21.3 MPH for 1/11 - 2/27.

PERCENTAGE FREQUENCY OF WIND (FROM HOURLY OBSERVATIONS) DIRECTION AND SPEED

| | | ALL | ALL | The state of the s | | | | | |
|------|------------------|--------------|-------------|--|---|----------|-----|---------------------|--|
| | Pomona 1965-1974 | STATION MADE | ALL WEATHER | CLASS | 34º 04', 117º 45', 850, 924 N. Garey Avenue | LOCATION | 351 | HEIGHT ABOVE GROUND | |
| POMA | 109W | 87.7104 | | | | | | | |

| MEAN WIND | 2 | 2.0 | 1.9 | 2.1 | 2.1 | 2.2 | 2.4 | 2.5 | 2.5 | 3.0 | 4.3 | 4 | 3.9 | 3.5 | 2.9 | 2.2 | | | 3.2 | 77 |
|--------------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|-----|-----|-------|-----------|------|--|
| 35 | C LC | 5.6 | 6.2 | 3.6 | 3.9 | 2.8 | 4.2 | 2.8 | 2.8 | 2.2 | 6.9 | 10.6 | 18.7 | 15.2 | 6.9 | 2.7 | | | 1001 | 83 455 |
| | | | | | | | | | | | | | | | | | | X | | IVATIONS |
| | | | | | | | | | | | | | | | | | | X | | TOTAL HUMBER OF OBSERVATIONS |
| | | | | | | | | | | | | | | | | | | X | | TOTAL NUM |
| | | | | | | | | | | | | | | | | | | X | | rict |
| | | | | | | | | | | | | | | | | | | X | | t Dist |
| | | | | | | | | | | | | | | | | | | | | agemen |
| | | | 1 | | | | | | | | | | | | | | | | | ty Man |
| | 1 | | | | | | | | _ | | | | | | | | | \langle | | ouali renue |
| | 1 | | | | | | | | | | | | | | | | | | | South Coast Air Quality Management District 9420 Telstar Avenue |
| | | | - | | | | | | | | | | | | | | | | | South Coast Air Qua 9420 Telstar Avenue |
| | | | | | | | | | | | | | | | | | | | | rrom Sou |
| MPH | 2 2 | ž | ENE | - | 252 | SE | SSE | " | SSW | NS. | WSW | * | WHA | ž | MNM | | CALLE | | | Data |

These data are available on an hourly basis. Note:

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

| ALL | ALL | BOURS (L.S.T.) | |
|---------------------------------------|-------------|----------------------|---------------------|
| 1935 thru 1938 | ALL WEATHER | 38921, 1219581, 4131 | HEIGHT ABOVE GROUND |
| Potrero Hill, CA (CAA) | | | |
| # # # # # # # # # # # # # # # # # # # | | | |

| h, h | SPEED MPH DIR. | 4-15 | 16-31 | 32-47 | 74 < | | | | | | | | × | MEAN WIND SPEED |
|--|----------------------|-------|-------|-------|------|---|-----------|-----------|-----------|---|---|-----------|--------|-----------------------|
| 2.1 1.0 0.1 0.0 4.5 0.1 0.0 0.7 0.1 0.0 0.7 0.2 0.1 0.0 0.7 0.5 0.1 0.0 0.7 0.2 0.1 0.0 0.8 14.8 0.4 0.0 0.9 0.0 0.0 0.9 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 | z | 4.4 | 2.3 | 9.0 | 0.0 | | | | | | | | 7.4 | |
| 0.7 0.1 0.0 0.1 0.0 0.3 0.1 0.0 0.1 0. | NNE | 2.1 | 1.0 | 0.1 | 0.0 | | | | | | | | 3.3 | |
| 0.7 0.1 0.0 0.3 0.1 0.0 0.3 0.1 0.0 1.7 0.6 0.1 0.0 0.7 0.5 0.1 0.0 2.2 1.0 0.1 0.0 1.0 8 14.8 0.4 0.0 5.2 10.2 0.1 0.0 5.2 10.2 0.1 0.0 6.1 10.8 0.2 1.5 0.7 0.0 2.7 0.7 0.0 1.5 0.7 0.0 1.5 0.7 0.0 1.5 0.7 0.0 1.5 0.7 0.0 1.5 0.7 0.0 1.5 0.7 0.0 1.5 0.7 0.0 | ž | 4.5 | 1.5 | 0.1 | | | | | | | | | 6.1 | |
| 1.4 0.1 0.0 0.3 0.1 1.7 0.6 0.1 0.0 0.7 0.1 0.0 1.7 1.8 0.1 0.0 5.2 10.2 0.1 0.0 5.2 10.2 0.1 0.0 6.1 0.0 0.2 6.1 0.0 0.2 6.1 0.0 0.0 0.7 0.0 | ENE | 0.7 | 0.1 | 0.0 | | | | | | | | | 0 | |
| 0.3 0.1 1.7 0.6 0.1 0.0 0.7 0.5 0.1 0.0 2.2 1.0 0.1 0.0 1.7 1.5 0.1 0.0 1.8 10.8 0.4 0.0 6.1 10.8 0.2 6.1 10.8 0.2 6.1 10.8 0.2 6.1 0.0 0.0 1.5 0.7 0.0 0.7 0.4 0.1 0.0 | | 1.4 | 0.1 | 0.0 | | | | | | | | | 1.5 | |
| 1.7 0.6 0.1 0.0 0.7 0.5 0.1 0.0 2.2 1.0 0.1 0.0 1.7 1.5 0.1 0.0 1.0 8 14.8 0.4 0.0 5.1 10.8 0.4 0.0 6.1 10.8 0.2 1.5 0.7 0.0 0.7 0.0 0.1 0.0 0.7 0.1 0.0 0.7 0.1 0.0 0.7 0.1 0.0 0.7 0.1 0.0 0.7 0.1 0.0 0.7 0.1 0.0 0.7 0.1 0.0 | ESE | 0.3 | 0.1 | | | | | | | | | | 0.4 | |
| 0.7 0.5 0.1 0.0 2.2 1.0 0.1 0.0 1.0 8 14.8 0.4 0.0 5.2 10.2 0.1 0.0 6.1 10.8 0.2 0.2 1.5 0.7 0.0 0.7 0.4 0.1 0.0 | SE | 1.7 | 9.0 | 0.1 | 0.0 | | | | | | | | 2.5 | |
| 2.2 1.0 0.1 0.0 1.7 1.5 0.1 5.2 10.2 0.1 0.0 6.1 10.8 0.2 0.0 6.1 10.8 0.2 0.0 1.5 0.7 0.0 0.7 0.4 0.1 0.0 | SSE | 0.7 | 0.5 | 0.1 | 0.0 | | | | | | | | 1.3 | |
| 1.7 1.5 0.1 0.0 10.8 14.8 0.4 0.0 5.1 10.8 0.1 0.0 6.1 10.8 0.2 1.5 0.7 0.0 0.7 0.4 0.1 0.0 1.6 0.1 0.0 | ~ | 2.2 | 1.0 | 0.1 | 0.0 | | | | | | | | 3,3 | |
| 10.8 14.8 0.4 0.0 5.2 10.2 0.1 0.0 1.5 0.7 0.0 2.7 0.7 0.0 0.7 0.4 0.1 0.0 | SSW | 1.7 | 1.5 | 0.1 | | | | | | | | | o m | |
| 5,2 10,2 0,1 0,0 6,1 10,8 0,2 1,5 0,7 0,0 2,7 0,4 0,1 0,0 46,7 46,1 2,1 0,0 | 3W | 10.8 | 14.8 | 0.4 | 0.0 | | | | | | | | 26.1 | |
| 6.1 10.8 0.2 1.5 0.7 0.0 0.7 0.4 0.1 0.0 1.6.7 46.1 2.1 0.0 | WSW | 5.2 | 10.2 | 0.1 | 0.0 | | | | | | | | 15.5 | |
| 2.7 0.7 0.0 0.7 0.4 0.1 0.0 0.6.7 46.1 2.1 0.0 | * | 6.1 | 10.8 | 0.2 | | | | | | | | | 17.0 | |
| 2.7 0.7 0.0 0.7 0.4 0.1 0.0 1.46.7 46.1 2.1 0.0 | WHW | 1.5 | 0.7 | 0.0 | | | | | | | | | 2.2 | |
| 0.7 0.4 0.1 0.0 10.0 10.0 10.0 10.0 10.0 10 | MW | 2.7 | 0.7 | 0.0 | | | | | | | | | m m | |
| 100 T | MNM | 0.7 | 0.4 | 0.1 | 0.0 | | | | | | | | 1.3 | |
| 46.7 46.1 2.1 0.0 | | | | | | | | | | | | | | |
| 46.7 46.1 2.1 0.0 | CALM | X | X | X | X | X | \bigvee | \bigvee | \bigvee | X | X | \bigvee | 5.0 | |
| | 5.0 | 1.6.7 | 46.1 | 2,1 | 0.0 | | | | | | | | 100.0 | |

DATA FROM NATIONAL CLIMATIC CENTER FEDERAL BUILDING - ASHEVILLE, N.C., 28801

TOTAL NUMBER OF OBSERVATIONS 3μ , 938

-197-

PERCENTAGE FREQUENCY OF WIND (FROM HOURLY OBSERVATIONS) DIRECTION AND SPEED

HMN

ALL BOOM (LAT.) 1/1/55 - 12/31/60 9th Ave . S HEIGHT ABOVE GROUND 314, 749 ALL WEATHER LOCATION 35 CLABS 34° 01', 117° 59', Puente 048W 87A710a

| | MEAN | 7 | 2.6 | 1.3 | 1.4 | 1.0 | 2.1 | 4.1 | 9.6 2.3 | 18.4 | 9.2 | 9.1 3.8 | 8.5 4.7 | 7.0 4.6 | 2.5 3.3 | 5.6 3.0 | 4.9 2.5 | |
|--|------|---|-----|-----|-----|-----|-----|-----|---------|------|-----|---------|---------|---------|---------|---------|---------|--|
| | | | | | | | | | | | | | | | | | | |

These data are available on an hourly basis. Note:

| 976 ALL | MAN DOWN | ALL* | HOURS (L.S.T.) | *10 second observation | frequency | 3 | |
|---------------------------------|--------------|-------------|----------------|------------------------|-----------|------|---------------------|
| January 1974 thru December 1976 | YEARS | ALL WEATHER | CLASS | 38°34", 121°07", 170" | LOCATION | 331 | HEIGHT ABOVE GROUND |
| Rancho Seco | STATION MANG | AL | | 38034, 1 | | en . | 31 |

| MEAN WIND SPEED | 2.58 | - | 1.93 | - | 2.06 | 3 2.86 | 3.48 | 4 4.26 | 0° 0 2 | 1 | | G | - | 3 2.80 | 3.69 | 11.77 | 3,23 | 8 | |
|-----------------------|------|------|------|------|-------|--------|------|--------|--------|-----------|------------------|-------|--------|--------|--------------|-------|-------|-----------|--------|
| × | 3.21 | 2.35 | 2.80 | 3.55 | 3.44 | 5.38 | 7.96 | 10.14 | 7.57 | | 6.52 | 10.00 | 12.81 | 4.68 | 5.78 | 6.56 | | .43 | 00.001 |
| > 10 | •05 | 20. | | | .01 | .01 | 32 | 8 | 20. | | (C) | 500 | 10. | .02 | .10 | •63 | 12.96 | X | 2.10 |
| 9-10 | 10. | | | | 00.00 | .01 | .07 | -24 | ٠٠3 | ٤. | . C. | , 74. | .02 | | ₀ | •25 | 2.47 | X | 0.70 |
| 8-9 | •03 | 05 | | | | • 05 | 80. | . 22 | 00 | E, | ₽C • | 60° | • 05 | 00.00 | .13 | • 28 | 8.45 | \bigvee | 1.05 |
| 7-8 | •05 | .01 | | | •01 | • 05 | 80° | • 36 | •16 | 50. | SC. | 00. | -12 | 00.00 | .18 | • 33 | 7.43 | \bigvee | 1.66 |
| 1-9 | #O. | .01 | | .01 | 00.00 | 90. | ,14 | • 50 | •18 | EC. | -17 | .43 | 38 | 00.00 | •25 | . 42 | 94.9 | X | 2.66 |
| 9-6 | 90. | •03 | .01 | •01 | • 03 | .23 | . 47 | • 57 | . 32 | 500 | Çi. | 5 | ် ေ | .10 | • 43 | .61 | 5.44 | \bigvee | 5.20 |
| 4-5 | 17 | • 05 | •03 | • 05 | 60° | • 70 | .97 | 66. | •53 | ୍ଦି : | G) • | 1.T | 2,65 | 64. | 98. | • 55 | 44.4 | X | 10.79 |
| 3-4 | • 35 | .17 | •16 | .17 | . 37 | 1.30 | 1.76 | 1.73 | 1.21 | 1.1 | 1° 50 | 5° 53 | 3.90 | 1.22 | 1.16 | • 85 | 3.49 | \bigvee | 18.89 |
| 2-3 | .96 | •54 | .97 | 1.07 | .97 | 1.35 | 1.97 | 2.22 | 2.12 | , J 0 ° 0 | ر ا ا ا | 2.57 | 3.25 | 1.79 | 1.47 | 1.26 | 2.48 | \bigvee | 26.44 |
| 1-2 | 1.34 | 1.34 | 1.46 | 2.05 | 1.60 | 1.26 | 1.58 | 1.87 | 2,18 | 2.3] | 1.99 | 1.95 | 1.32 | 1.01 | 1.09 | 1.32 | 1.54 | \bigvee | P5.67 |
| .5-1 | •I5 | .17 | .17 | •23 | • 35 | 24. | • 52 | •64 | 69• | 94. | 1.60 | 37.5 | €0. | • 03 | • 07 | .08 | .81 | X | 4.41 |
| SPEED MESS DIR. | z | NNE | Z | ENE | E | ESE | 38 | SSE | S | SSW | WS. | WSW | W | WHW | N.W | NNW | AVG. | CALM | .43 |

DATA FROM Sacramento Municipal Utility District

25,893*

TOTAL NUMBER OF hours

-199-

MPS = Meters per second, 1 MPS = 2.235 miles per hour

PERCENTAGE FREQUENCY OF WIND (FROM HOURLY OBSERVATIONS) DIRECTION AND SPEED

| ALL | MERCHAN | ALL | BOURS (L.B.T | | | |
|----------------|--------------|-------------|--------------|-----------------------|----------|---------------------|
| 1929 thru 1938 | YEARS | JER | | 7221 | NC | ON OUN D |
| Redding, CA | STATION NAME | ALL WEATHER | CLASS | 40°35', 122°24', 722' | LOCATION | NEIGHT ABOVE GROUND |

87A7168

| SPEED MPH DIE | 4-15 | 4-15 16-31 32-47 | 32-47 | ∠ †< | | | | | | | | st. | WIND |
|---------------------|------|------------------|-------|-------------|---|---|---|---|---|---|---|-------|------|
| z | 11.0 | 1.4 | 0.0 | | | | | | | | | 12.4 | |
| ZXZ | 1.6 | 0.2 | | | | | | | | | | 1.8 | |
| ž | 2.7 | 0.2 | | | | | | | | | | 2.8 | |
| Z. | 0.4 | 0.0 | | | | | | | | | | 0.4 | |
| | 1.8 | 0.0 | | | | | | | | | | 1.8 | |
| ESE | 0.8 | 0.0 | | | | | | | | | | 0.8 | |
| 38 | 8.8 | 0.2 | 0.0 | | | | | | | | | 0.6 | |
| SSE | 2.0 | | 0.0 | | | | | | | | | 2.4 | |
| s | 7.4 | | 0.0 | 0.0 | | | | | | | | 8,3 | |
| SSW | 1.3 | 0.1 | 0.0 | | | | | | | | | 1.4 | |
| NS. | 4.2 | 0.2 | 0.0 | | | | | | | | | 4.4 | |
| WSW | 0.4 | 0.0 | | | | | | | | | | 0.4 | |
| * | 2.4 | 0.1 | 0.0 | | | | | | | | | 2.5 | |
| WHW | 1.8 | 0.4 | | • | | | | | | | | 2.2 | |
| MM | 30.5 | 1.0 | | | | | | | | | | 31.6 | |
| MMM | 5.4 | 0.2 | | | | | | | | | | 9.5 | |
| | | | | | | | | | | | | | |
| CALM | X | X | X | X | X | X | X | X | X | X | X | 12.1 | |
| 12.2 | 82.7 | 5.1 | 0.1 | 0.0 | | | | | | | | 100.0 | |

DATA FROM NATIONAL CLIMATIC CENTER FEDERAL BUILDING - ASMEVILLE, N.C., 28801

TOTAL NUMBER OF OBSERVATIONS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED

1/1/66 - 12/31/74 Harbormaster (FROM HOURLY OBSERVATIONS) ALL WEATHER 24', 10' CLASS 1180 20', Redondo-King Harbor 330

> 012W STATION

HEIGHT ABOVE GROUND

LOCATION

35

ALL BOURS (LAT.) ALL

| 03545 | | | | | | | |
|------------|--|--|--|--|--|------|-----|
| MPH | | | | | | × | |
| z | | | | | | 1.9 | _ |
| N X X | | | | | | 2.7 | |
| Z | | | | | | 3.6 | |
| ava ava | | | | | | 9.5 | |
| - | | | | | | 5.4 | 1 1 |
| ESE | | | | | | 1.9 | |
| SE | | | | | | 2.4 | |
| SSE | | | | | | 2.4 | |
| 8 | | | | | | 3.7 | |
| SSW | | | | | | 9.6 | |
| AS. | | | | | | 15.3 | |
| WSW | | | | | | 19.7 | |
| * | | | | | | 14.1 | |
| WWW | | | | | | 4.8 | |
| N.A. | | | | | | 1.6 | |
| MNW | | | | | | 1.4 | |
| | | | | | | | |

TOTAL NUMBER OF OBSERVATIONS South Coast Air Quality Management District 9420 Telstar Avenue El Monte, CA 91731 These data are available on an hourly basis.

Data from

SALA

Note:

6.3

74,436 100.0

| ALL | BOATA | ALL | BOURS (L.S.T.) | | |
|-------------------|--------------|-------------|----------------|--|----------|
| 1956 through 1960 | Trass | ALL WEATHER | CLASS | 39 ⁰ 32', 119 ⁰ 49', 4531' | LOCATION |
| Reno, Nevada AP | STATION NAME | | | 390 32', 11 | |

HEIGHT ABOVE GROUND

| WIND SPEED | 6.5 | 9.9 | 5.3 | 5.2 | 4.8 | 4.6 | 5.3 | 9.3 | 8.2 | 7.4 | 2.6 | 7.3 | 8.8 | 11.8 | 8.2 | 8.0 | 5.9 | |
|----------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|-----|-----------|-----------|
| УR | 5.3 | 4.6 | 2.6 | 2.4 | 2.3 | 2.2 | 5.3 | 3.7 | 7.5 | 6.3 | 8.9 | 3.1 | 4.2 | 9.3 | 7.0 | 3.6 | 20.6 | 100 |
| | | | | | | | | | | | | | | | | | \bigvee | |
| | | | | | | | | | | | | | | | | | X | |
| > 46 | | | | | | | | | | 0.0 | | | | | | | X | 0.0 |
| 39-46 | | | | | | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | | | X | 0.1 |
| 32-38 | 0.0 | | | | | | 0.0 | 0.1 | 0.1 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | | 0.0 | X | 0.3 |
| 25-31 32-38 39-46 | 0.0 | 0.0 | 0.0 | | | 0.0 | 0.0 | 0.2 | 0.3 | 0.1 | 0,1 | 0.0 | 0.0 | 0.2 | 0.0 | 0.0 | X | 1.0 |
| 13-18 19-24 | 0.1 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.3 | 9.0 | 0.4 | 0.2 | 0,1 | 0.2 | 1.4 | 0.3 | 0.1 | X | 4.0 |
| 13-18 | 0.4 | 0.3 | 0.2 | 0.1 | 0.1 | 0.1 | 0.2 | 0.4 | | 0.6 | 0.5 | 0.5 | 1.0 | 2.9 | 1.3 | 9.0 | X | 10.0 |
| 8-12 | 1.1 | 1.1 | 1.0 | 0.4 | 0.3 | 0.2 | 0.5 | | 0.8 | 9.0 | 0.7 | 0.4 | 0.7 | 1.7 | 1.6 | 6.0 | X | 12.6 |
| 4-7 | 1.7 | 1.6 | 2.0 | 0.7 | 0.7 | 0.7 | 1.5 | 0.8 | 1.6 | 1.7 | 1.8 | 9.0 | 0.7 | 1.3 | 1.7 | 1.0 | X | 20.2 |
| 1-3 | 1.9 | 1.4 | 2.4 | 1.1 | 1.2 | 1.2 | 2.9 | 1.5 | 3.3 | 2.8 | 3.5 | 1.4 | 1.5 | 1.8 | 2.1 | 1.0 | X | 51.7 20.2 |
| SPEED MPH DIR. | z | NN | Z | ENE | | ESE | SE | SSE | s | SSW | NS. | WSW | } | WHW | WW | NNN | CALM | 20.6 |

DATA FROM NATIONAL CLIMATIC CENTER FEDERAL BUILDING - ASHEVILLE, N.C., 28801

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED

YEARS 43-45,52-66 (FROM HOURLY OBSERVATIONS) ALL WEATHER CLASS 5056 1190521 RENO NEVADA/STEAD AFB 390401

> 23118 ATATION

HEIGHT ABOVE GROUND

13

LOCATION

ALL HOURS (L.R.Y.)

ALL

| MEAN WIND SPEED | 5. | 9 | 9 | . 9 | 5. | 5. | .9 | 9 | 80 | 12. | | | 6 | | 7. | | | 5. |
|-------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|-----|------|-----------|-------|
| × | 5.8 | 1.6 | 2.4 | 1,5 | 3.7 | 2.6 | 3.4 | 1.6 | 2.7 | 2.6 | 5.8 | 5.0 | 12.3 | 6.8 | 9.8 | 4.6 | 29.0 | 100.0 |
| % A1 | | | | | | | | | | | | | | | | | \bigvee | |
| 48 - 55 | | | | | | | | | | 0. | 0. | 0. | | | | | \bigvee | C |
| 41 - 47 | | | | | | | | | 0. | 0. | 0. | 0. | | | | 0. | \bigvee | - |
| 34 - 40 | | 0 | | | | | | 0 | 0. | 1 | 0. | 0. | 0. | 0. | | 0. | \bigvee | - |
| 28 - 33 | 0 | 0 | 0 | | 0 | | 0. | 0 | 0. | 1 | .1 | 0. | 0. | 0. | 0 | | X | ٣ |
| 22 - 27 | 0. | 0 | 0 | 0. | | 0, | 0 | 0. | .1 | -1 | . 2 | . 2 | . 2 | | 0. | 0 | X | 0 |
| 17.21 | - | 0 | 0. | 0 | 0 | 0 | 0 | 0. | . 2 | . 4 | . 7 | 9. | - | .3 | . 2 | .1 | X | 3 6 |
| 11 - 16 | .5 | 7. | . 2 | -1 | . 2 | 7. | .3 | 1 | 4 | . 7 | 1.9 | 1.9 | 3.8 | 1.7 | 1.2 | .5 | X | 13 0 |
| 7 - 10 | 1.0 | . 4 | 9 | . 4 | | . 7 | 6. | .5 | 9. | .5 | 1.4 | 1.3 | 3.9 | 2.3 | 2.6 | 1.1 | X | 10 2 |
| 4.6 | 2.5 | 9. | 6. | 9. | 1.7 | 1:1 | 1.4 | 9. | 8 | .5 | 6. | .7 | 2.5 | | 3.2 | 1.8 | X | 21 2 |
| .: | 1.6 | . 5 | 7 | 4. | 6. | 9. | 8 | 4 | 9. | .3 | 9. | .3 | 1.0 | 9. | 1.4 | 1.0 | X | 7 11 |
| SPEED (KNTS) DIR. | z | NNE | 2 | ENE | | ESE | SE | SSE | S | SSW | SW | WSW | * | WNW | ×× | NN.W | CAUA | 29.0 |

9999484899MM999HV

140000

| ALL | Beattl | ALL | BOULS (L.S.T.) | | |
|--------------|--------------|-------------|--|-----|---------------------|
| 1965-1974 | STATION HARE | ALL WEATHER | 34 ^O 12', 118 ^O 32', 740, 18330 Gault Street | 351 | HEIGHT ABOVE GROUND |
| Reseda | | | | | |
| RESD 107W | \$7A7104 | | | | |

| MEAN WHO SPEED | 10.1 6.9 | 3.0 5.1 | 2.8 2.8 | 6.8 2.5 | 14.3 2.4 | 7.1 2.1 | 4:9 2.1 | 3.9 1.9 | 7.5 2.4 | 5.4 2.5 | 4.8 2.4 | 7.1 2.8 | 9.7 | 10 | | 3.7 4.2 | | | 100.2 3.0 | 84,084 |
|----------------------|----------|---------|---------|---------|----------|---------|---------|---------|---------|---------|---------|---------|-----|------|----|---------|---|-------------------|-----------|--|
| | | | | | | | | | | | | | | | | | | X | | RYATIONS |
| | | | | | | | | | | | | | | | | | | X | | TOTAL NUMBER OF OBSERVATIONS |
| | | | | | | | | | | | | | | | | | | X | | TOTAL NU |
| | | | | | | | | | | | | | | | | | | X | | strict |
| | | | | | | | | | | | | | | | | | | X | | ent Di |
| | | | | | | _ | | | _ | | | | | | | | - | X V | | Managem |
| | | | | | | | | | | | | | | | | | | \bigvee_{i} | | uality ue |
| | | | | | | | | | | | | | | | | | | $\langle \rangle$ | | Air Q |
| | | | | | | | | | | | | | | | | | | X | | South Coast Air Quality Management District 9420 Telstar Avenue |
| | | | | | | | | | | | | | | | | | | X | | from Sout 9420 |
| MPH DIE | z | NX. | 2 | SV2 | | ESE | SE | SSE | s | SSW | SW. | WSW | * | Whiw | MM | NNW | | CALM | | Data fr |

Note: These data are available on an hourly basis.

| ALL | Beath | ALL | BOURS (L.B.T.) | | |
|----------------------------|--------------|-------------|-------------------------|----------|---|
| .June 1943 thru March 1944 | 98724 | ALL WEATHER | cLass 8821 | LOCATION | ON CONTRACTOR OF THE SECOND CONTRACTOR OF THE |
| Rice, CA AAF | STATION NAME | | 34° 04', 114° 50', 882' | | |

87A7108

| WIND WIND SPEED | 0.6 | 10.1 | 8.2 | 7.6 | 5.9 | 7.8 | 6.9 | 10.0 | 7.8 | 8°3 | 7.3 | 7.4 | 7.4 | 9.1 | 10.1 | 11.8 | 8.3 | |
|------------------------|-----|------|-----|-----|-----|-----|-----|------|-----|-----|-----|-----|------|-----|------|------|-----------|-------|
| yt. | 3.6 | 1.4 | 9.1 | 2.1 | | | | | | | | | | | | | 0.2 | 100.0 |
| | | | | | | | | | | | | | | | | | X | |
| | | | | | | | | | | | | | | | | | X | |
| | | | | | | | | | | | | | | | | | X | |
| | | | | | | | | | | | | | | | | | X | |
| | | | | | | | | | | | | | | | | | \bigvee | |
| 2 47 | | | | | | | | | | | | | | | | | \bigvee | |
| 32-46 | 0.0 | | | | | | | | | | | | | | 0.0 | | \bigvee | 0.0 |
| 4-12 13-24 25-31 32-46 | 0.1 | 0.1 | 0.0 | | 0.1 | | | | 0.0 | | 0.1 | 0.1 | 0.0 | | 0.2 | 0.1 | \bigvee | 0.8 |
| 13-24 | 9.0 | 0.3 | 1.5 | 0,3 | 0.3 | 0.4 | 0.5 | 0.7 | 0.9 | 0.4 | 9.0 | 0.1 | 1.0 | 1.2 | 5.4 | 9.0 | \bigvee | 14.9 |
| | 2.3 | 0.9 | 9.9 | 1.6 | 6.5 | 1.6 | 6.2 | 1.7 | 5.0 | 1.6 | 5.0 | 1.9 | 10.8 | 6.4 | 16.3 | 1.0 | \bigvee | 75.6 |
| 1-3 | 0.5 | 0.1 | 1.0 | 0.2 | 1.2 | 0.4 | 0.7 | 0.1 | 0.8 | 0.2 | 0.7 | 0.1 | 1.1 | 0.4 | 6.0 | 0.1 | X | 8.5 |
| SPEED MPH DIR. | z | N.X. | Z | ENE | . 1 | ESE | SE | SSE | S | ASS | SW | WSW | * | WWW | MM | MNM | CALM | 0.2 |

PATA FROM NATIONAL CLIMATIC CENTER FEDERAL BUILDING - ASHEVILLE, N.C., 28801

ALL BROWN (LAT.) MEAN WIND 154,626 4.5 7.9 8 0.1 1001 TOTAL NUMBER OF OBSERVATIONS Slauson Ave. South Coast Air Quality Management District 9420 Telstar Avenue El Monte, CA 91731 1956-1974 回 150', 8811 30 F ALL WEATHER LOCATION CLABS 06', 1180 330 581, Rivera Data from MPH MX WAW z Z Z 252 85W WSW 35 SSE š Ž MAN CALLA s ≱ RVA 081W 874.7468

These data are available on an hourly basis. Note:

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED

BOURS (L.S.T.) (FROM HOURLY OBSERVATIONS) 33-67 ALL WEATHER LOCA TION 1529 AFB RIVERSIDE CALIFORNIA/MARCH 117015', 33054',

> 23119 STATION

HEIGHT ABOVE GROUND

ALL BONTH ALL

| MEAN WIND SPEED | 3 | 9 | 5 | 9 | 5 | 4 | 4 | 2 | 4 | 4 | 4 | 9 | | 8 | | 9 | | 4 |
|-------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|------|-----------|
| ył. | 4.0 | 1.6 | 3.6 | 2.0 | 3.1 | 1.3 | 3.8 | 2.6 | 3.7 | 80 | 1.4 | 6. | 6.3 | 9.8 | 16.6 | 4.7 | 33.6 | 100.0 |
| % A1 | | | | | | | | | | | | | | | | | X | |
| 48 - 55 | • | | | | | | | | | | | | | | | | X | |
| 41 - 47 | | 0. | | | | | | | | | | | | | | | X | 0. |
| 34 - 40 | 0. | 0 | | | 0 | | 0. | 0 | | | 0. | 0. | 0 | | 0 | | X | 0. |
| 28 - 33 | 0 | 0 | 0. | | 0 | | 0. | 0. | 0 | 0. | 0. | 0. | 0. | 0 | | 0. | X | 0. |
| 22 - 27 | 0. | 0. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0. | 0 | 0 | 0 | 0 | 0. | X | . 2 |
| 17 - 21 | .1 | 0. | 0 | 7 | 0. | 0 | 0 | 0 | 0. | 0. | 0. | 0. | . 3 | . 2 | . 2 | .1 | X | 1.3 |
| 11 - 16 | . 3 | F | . 2 | .3 | . 2 | 7 | . 2 | . 2 | . 2 | 7: | 7. | . 1 | 1.2 | 2.2 | 3.2 | 9. | X | 9.3 |
| 7 . 10 | 80 | . 4 | 80 | 9 | | . 2 | . 7 | 9. | . 7 | .1 | . 2 | . 2 | 2.1 | 3.8 | 9.9 | 1.6 | X | 19.9 |
| 4 - 6 | 1.1 | . 5 | 80 | | | 4. | 1.0 | ω. | | . 2 | .3 | . 2 | 1.3 | 2.2 | 3.9 | 1.4 | X | 19.8 15.8 |
| 1.3 | 1.7 | 9. | 1.7 | 9. | 1.6 | 9. | 1.9 | 6. | 1.8 | 4. | 6. | .3 | 1.5 | 1.4 | 2.7 | 1.0 | X | 19.8 |
| SPEED (KNTS) DIR. | z | NNE | N.E | ENE | E | ESE | SE | SSE | S | SSW | SW | WSW | * | WHW | WW | WWW | CALM | 33.6 |
| | | | | | | | | _ | | | | | | | ليا | | | |

286219

| PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS) | 1951 - 1960 |
|---|------------------------------|
| RCENTAGE FRE DIRECTION (FROM HOURLY | Airport |
| a | Executive |
| | Sacramento Executive Airport |

| height = 20 |
|--------------|
| 21°301, 171, |
| 380311, 1 |
| |

STATION NAME

ALL BOVES (LS.T.)

ALL M

HEIGHT ABOVE GROUND

| MEAN WIND SPEED | 8.7 | 6.3 | 4.8 | 5.4 | 5.8 | 7.3 | 10.6 | 11,4 | 9.6 | 11.7 | 11,7 | 8.7 | 6.1 | 7.0 | 8.0 | 10.8 | | 6.3 |
|------------------------------------|-----|-----|-----|-----|-----|-----|------|------|-----|------|------|-----|-----|-----|-----|------|-----------|-----|
| × | - 4 | | 2 | 7 | ~ | | 10 | 10 | 10 | 11 | 15 | 7 | ~ | 3 | 8 | 6 | 9 | 100 |
| | | | | | | | | | | | | | | | | | \bigvee | |
| | | | | | | | | | | | | | | | | | \bigvee | |
| 74 V | | | | | | | + | + | | | | | | | | | \bigvee | + |
| 39-46 | + | | | | | | + | + | | | | | | | + | + | \bigvee | + |
| 32-38 | + | + | | | | | + | + | + | + | + | | | | + | + | \bigvee | + |
| 25-31 | + | + | + | | | + | + | + | + | + | +. | + | + | + | + | + | X | - |
| 19-54 | + | + | | + | + | + | + | - | + | _ | _ | + | + | + | + | - | X | L |
| 8-12 13-18 19-24 25-31 32-38 39-46 | + | + | + | + | + | + | - | 0 | 0 | 7 | 77 | - | + | + | - | a | X | 0 " |
| 8-12 | - | + | + | + | - | - | 7 | 7 | 77 | 7 | 7 | - | - | 1 | 2 | ~ | X | 1.0 |
| 4-7 | CV | - | - | + | | - | ~ | CU | ~ | CV | 3 | | 7 | 7 | ~ | C | X | 00 |
| 0-3 | - | + | - | + | - | + | | 1 | | + | 7 | + | 7 | + | 7 | 1 | X | 0 |
| SPEED MPH DIR. | z | ZZZ | ž | 373 | | 353 | SE | SSE | S | SSW | AS. | WSW | 3 | WHW | WW | MNN | CALM | U |

DATA FROM NATIONAL CLIMATIC CENTER FEDERAL BUILDING - ASMEVILLE, N.C., 28801

TOTAL NUMBER OF OBSERVATIONS

87,672

ALL BOVAS (LA.T.) ALL 1941 - 1967 196 HEIGHT ABOVE GROUND ALL WEATHER 1210181 LOCATION CLASS Mather AFB 380341 STATION NAME Sacramento, CA

23206

| | 1-3 | 9-4 | | 11-16 | 17-21 | 22-27 | 28-33 | 7-10 11-16 17-21 22-27 28-33 34-40 41-47 48-55 | 41-47 | 48-55 | 56 | N. | WIND |
|-----|------|------|---------------------|---------|-------|-------|-------|--|-------|-------|----|-------|----------|
| 0.9 | | 1.3 | 1.2 | 0.7 | 0.2 | 0.1 | 0.0 | | | | | 4.3 | 7.7 |
| 0.5 | | 0.5 | 0.3 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | | | | 1.5 | 6.3 |
| 0 | 5 | 0.5 | 0.2 | 0.0 | 0.0 | 0.0 | 0.0 | | | | | 1.2 | 4.7 |
| 0 | ~ | 0.3 | 0.1 | 0.0 | 0.0 | | | | | | | 0.7 | 4.4 |
| 0 | 7 | 0.7 | 0.5 | 0.0 | 0.0 | | 0.0 | 0 0 | | | | 1.7 | 4.3 |
| - | 0 | 1.6 | 9.0 | 0.1 | 0.0 | 0.0 | | 0.0 | | | | 3.3 | 5.1 |
| | 2 | 3.2 | 5.0 | 0.7 | 0.2 | 0.1 | 0.0 | 0.0 | 0.0 | | | 8.6 | 7.1 |
| | a | 3.2 | 4.2 | 1.3 | 0.5 | 0.3 | 0.1 | 0.0 | 0.0 | 0.0 | | 10.9 | 8.7 |
| | 2 | 3.5 | 5.2 | 0 | 7.0 | 0.2 | 0.1 | 0.0 | 0.0 | 0.0 | | 12.6 | 8.2 |
| - | - | 2.5 | 3.9 | 1.8 | 0.2 | 0.0 | 0.0 | 0.0 | 0.0 | | | 9.6 | 8 |
| 0 | 0 | 2.1 | 3.4 | 1.6 | 0.2 | 0.0 | 0.0 | 0.0 | | | | 8.4 | 8.3 |
| 0 | 5 | 1,1 | 1.2 | 0.5 | 0.1 | 0.0 | | | | | | 3.4 | 7.3 |
| 0 | 7 | 1.1 | 0.7 | 0.1 | 0.0 | 0.0 | 0.0 | | | | | 2.7 | 5.7 |
| 0 | 9 | 1.0 | 0.5 | 0.1 | 0.0 | 0.0 | | | | | | 2.1 | 5.4 |
| 0 | ω | 1.4 | 1.0 | 0.3 | 0.1 | 0.0 | 0.0 | | | | | 3.5 | 6.2 |
| 0 | 2 | 1.6 | 1.7 | 6.0 | 0.3 | 0.1 | 0.0 | | | | | 5.3 | 7.8 |
| | | | | | | | | | | | | | |
| M | M | X | X | X | X | X | X | X | X | X | X | 19.9 | |
| 13 | 5 | 25.5 | 13.5 25.5 27.2 10.2 | 10.2 | 2.2 | 6.0 | 0.3 | 0.1 | 0.0 | 0.0 | | 100.0 | 0.9 |
| 6.6 | 23.2 | 62.2 | 21.5 | TO . C. | 2.2 | 7.0 | 0.3 | O. L. | 0.0 | 2.0 | | | D. DOT 1 |

OATA FROM NATIONAL CLIMATIC CENTER FEDERAL BUILDING - ASMEVILLE, N.C., 28601

227,840

TOTAL NUMBER OF OBSERVATIONS

-209-

| 36°41 | ALL | Post 7.11 | ALL | HOVAS (L.B.T.) | | |
|-------|-----|-----------|-------------|---|----------|-----------------|
| | | | ALL WEATHER | 36 ⁹ 41', 121 ³ 5', 72' | LOCATION | ONO ON MACHINET |

STATION

| MPH DIR. | 1-3 | 4-12 | 13-24 | 25-31 | 4-12 13-24 25-31 32-46 | 74 47 | | | | | | * | MEAN WIND SPEED |
|-------------|------|----------------|-------|-------|------------------------|-------|---|---|---|---|---|------|-----------------------|
| z | 8.0 | 3.1 | 0.2 | 0.0 | | | | | | | | 7.2 | 6.3 |
| Z. | 0.3 | 6.0 | 0.0 | 0.0 | | | | | | | | 1.2 | 5.7 |
| ž | 0.5 | 9.0 | 0.0 | | | | | | | | | 1.1 | 4.5 |
| ENE | 0.3 | 0.4 | 0.0 | | | | | | | | | 9.0 | 4.8 |
| . 3 | 0.7 | 1:1 | 0.1 | | | | | | | | | 2.0 | 5.5 |
| ESE | 7.0 | 2.6 | 1.2 | 0.0 | | | | | | | | 4.3 | 9.8 |
| SE | 1.4 | 9.5 | 4.8 | ħ.0 | 0.2 | 0.0 | | | | | | 16.0 | 11.1 |
| SSE | 0.5 | 2.2 | 0.5 | 0.0 | 0.0 | | | | | | | 3.3 | 8.4 |
| S | 0 | 1.4 | 0.1 | 0.0 | | | | | | | | 2.3 | 5.6 |
| SSW | 0.2 | 0.4 | 0.0 | | | | | | | | | 0.7 | 4.9 |
| AS. | 0.8 | 1.5 | 0.2 | 0.0 | | | | | | | | 2.5 | 5.6 |
| WSW | 4.0 | 5.4 | 0.5 | 0.0 | | | | | | | | 3.4 | 8.2 |
| * | 1.4 | 8.1 | 5.9 | 0.1 | | | | | | | | 12.5 | 9.5 |
| WHW | 1.0 | 6.8 | 4.3 | 0.1 | 0.0 | | | | | | | 14.3 | 10.3 |
| WW | 1.9 | 13.0 | 4.0 | 0.0 | | | | | | | | 18.9 | 9.1 |
| NNN | 9.0 | 4.1 | 0.8 | 0.0 | | | | | | | | 5.5 | 8.0 |
| | | | | | | | | | | | | 7.2 | |
| CALM | X | X | X | M | X | X | X | X | X | X | X | , | 8.1 |
| 7 0 | 12.0 | 12 0 60 0 19 8 | 00 | 0 | 0.0 | 0.0 | | | | | | 100 | |

| ALL | Branta | ALL | Bouns (L.s.T.) | | | | | |
|---------------------|---------------|-------------|----------------|---|----------|-----|---------------------|--|
| Sam Jones Site HLMR | STATION MAM 6 | ALL WEATHER | CLAss | 35 ⁰ 53', 121 ⁰ 08', 1,460' | LOCATION | 10' | HEIGHT ABOVE GROUND | |
| Sar | | | | | | | | |

| MEAN WIND SPEED | | | | | | | | | | | | | | | | | | |
|-----------------------|------|-------|-------|-------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|-------------|
| 3ª | 3.94 | 10.70 | 11.21 | 19.51 | 8.04 | 1,13 | 09.0 | 0.85 | 1.83 | 6,83 | 97.6 | 3,72 | 0.99 | 0,46 | 0,46 | 1.48 | 18.79 | 100.00 |
| | | | | | | | | | | | | | | | | | \bigvee | |
| | | | | | | | | | | | | | | | | | X | |
| | | | | | | | | | | | | | | | | | \bigvee | |
| | | | | | | | | | | | | | | | | | X | |
| >31 | | | | | | | | | | | | | | | | | X | 00.0 |
| 25-31 | | | | | | | | | | | | | | | | | \bigvee | 0.01 |
| 13-18 19-24 25-31 | | | | | | | | | | | | | | | | | \bigvee | 0.08 |
| 13-18 | | | | | | | | | | | | | | | | | \bigvee | 0.37 |
| 8-12 | | | | | | | | | | | | | | | | | X | 5.47 |
| 2-4 | | | | | | | | | | | | | | | | | X | 18.96 |
| 1-3 | | | | | | | | | | | | | | | | | X | 53.32 18.96 |
| METH DIR. | z | N. | ž | IN I | . 3 | ESE | SE | 358 | s | SSW | 3W | WSW | * | WHW | MM | NNW | CALM | 18.79 |

DATAFROM Hunter Liggett Milltary Reservation

52,755

TOTAL NUMBER OF OBSERVATIONS

-211-

| | YEARs | | | | | | |
|---|--------------|-------------|-------|-----------------------|----------|-----|---------------------|
| 63-72 | | | | | | | CZZ |
| NWSED | | ALL WEATHER | CLASS | | LOCATION | | CALICAG TYCA THEIRI |
| SAN CLEMENTE ISLAND, CALIFORNIA NWSED 63-72 | STATION NAME | ALL | | 32°57', 118°32', 906' | 7 | 17' | FIGURE |

93117

| MEAN WIND SPEED | 5.2 | 5.2 | 5.7 | 6.3 | 6.4 | 6.9 | 5.6 | 5.2 | 5.5 | 6.1 | 5.7 | 5.9 | 7.1 | 8.2 | 8.5 | 6.5 | | 6.3 |
|-------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|-----|-----|-----------|-------|
| × | 2.9 | 1.2 | 1.0 | 1.3 | 2.2 | 1.9 | 1:2 | 1.8 | 5.7 | 6.3 | 9.8 | 1.6 | 8.02 | 16.3 | 8.7 | 3.8 | 8.8 | 100.0 |
| % A1 | | | | | | | | | | | | | | | | | X | |
| 48 - 55 | | | | | | | | | | | | | | | | | \bigvee | |
| 41 - 47 | | | | | | | | | | | | | | | | | X | |
| 34 - 40 | | | | | | | | | | | | | | | | | X | |
| 28 - 33 | | | | | | | | | | 0. | | | 0. | 0. | 0. | | X | 0. |
| 22 - 27 | 0. | 0. | 0. | 0. | 0. | | | | 0. | 0. | 0. | | 0. | . 2 | -: | 0. | X | . 4 |
| 17 - 21 | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | .1 | .1 | 0. | 0. | .2 | .7 | ٠. | ſ. | X | 1.9 |
| 11 - 16 | .2 | .1 | -1. | .1 | .2 | .2 | -1 | .1 | 4. | 4. | £. | .5 | 2.4, | 3.2 | 1.6 | 4. | X | 10.2 |
| 7 - 10 | 4. | .1 | .2 | .3 | . 7 | .7 | .2 | .3 | 1.1 | 1.7 | 1.7 | 2.8 | 8.1 | 6.2 | 2.8 | 1.0 | X | 28.2 |
| 4.6 | 1.4 | ٥. | 4. | .5 | 6. | .7 | .5 | ω. | 2.6 | 2.9 | 3.3 | 4.2 | 7.6 | 4.6 | 2.6 | 1.6 | X | 35.1 |
| | 6. | 4. | е. | 4. | 4. | Е. | .3 | 9. | 1.6 | 1.3 | 1.4 | 1.8 | 2.5 | 1.4 | 1.0 | ω. | X | 15.3 |
| SPEED (KNTS) DIR. | z | NNE | Z. | ENE | | ESE | SE | SSE | S | SSW | NS. | WSW | > | WWW | WW | MNM | CALM | 8.8 |

78600

| ALL | BOATA | ALL | 90vas (L.s.T.) | | | | |
|---------------------------------|--------------|-------------|----------------|-------------------------|----------|-----|---------------------|
| January 1932 thru December 1938 | YEARS | ALL WEATHER | CLASS | 34045', 118044', 4,524' | LOCATION | 30' | HEIGHT ABOVE GROUND |
| Sandberg | STATION MAMS | ALL | | 340451, 1 | | 36 | HEIGHT |

STA 7:04

| MPH DIR. | 4-15 | 4-15 16-31 32-47 | 32-47 | 7 47 | | | | | | | | ж | MEAN WIND SPEED |
|-------------|-----------|------------------|-------|------|---|-------------|-----------|-----------|---|-----------|---|-------|-----------------------|
| z | 5.8 | 4.1 | 0.2 | 0.0 | | | | | | | | 10.2 | |
| 22 | 1.4 | 0.5 | 0.0 | | | | | | | | | 2.0 | |
| 2 | 5.1 | 7.0 | 0.7 | 0.0 | | | | | | | | 12.7 | |
| SVS. | 1.1 | 5.6 | 0.3 | 0.0 | | | | | | | | 4.1 | |
| 3 | 0.8 | 1.3 | 0.3 | 0.0 | | | | | | | | 2.4 | |
| ESE | 0.4 | 0.5 | 0.0 | | | | | | | | | 9.0 | |
| 3.8 | 8.0 | 0.2 | | | | | | | | | | 1.0 | |
| 55E | 2.0 | 1.4 | 0.0 | | | | | | | | | 3.4 | |
| S | 8.2 | 7.4 | 0.1 | 0.0 | | | | | | | | 13.0 | |
| SSW | 4.2 | 1.9 | 0.1 | | | | | | | | | 6.2 | |
| SW | 5.4 | 0.4 | 0.0 | | | | | | | | | 5.9 | |
| WSW | 0.8 | 0.0 | 0.0 | | | | | | | | | 0.8 | |
| * | 2.3 | 0.1 | | | | | | | | | | 7.0 | |
| WMW | 1.1 | 0.5 | 0.0 | | | | | | | | | 1.7 | |
| MM | 0.6 | 11.4 | 1.1 | 0.1 | | | | | | | | 21.5 | |
| NNN | 3.6 | 8.9 | 0.5 | 0.0 | | | | | | | | 10.3 | |
| | | | | | | | | | | | | | |
| CALM | \bigvee | X | X | X | X | \setminus | \bigvee | \bigvee | X | \bigvee | X | 1.2 | 15.3* |
| 1.2 | 52.0 | 43.3 | 3.3 | 0.2 | | | | | | | | 100.0 | |

DATA FROM NATIONAL CLIMATIC CENTER FEDERAL BUILDING - ASHEVILLE, N.C., 28801 *From local climatological data.

TOTAL NUMBER OF OBSERVATIONS

59,682

93112

| ALL | MONTH | ALL | BOURS (L.S.T. | | | |
|----------------------------------|--------------|-------------|--|----------|-----|---------------------|
| SAN DIEGO, CALIFORNIA NWSF 45-72 | STATION NAME | ALL WEATHER | 32 ⁰ 42', 117 ⁰ 12', 24' | LOCATION | 30, | HEIGHT ABOVE GROUND |

| MEAN WIND SPEED | 4.4 | 3.8 | 3.6 | 3.4 | 3.1 | 3.4 | 3.9 | 5.4 | 5.5 | 6.0 | 6.1 | 6.3 | 7.2 | 7.9 | 7.6 | 6.2 | | 5.3 |
|-------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|-----|------|-------|
| 38 | 6.7 | 2.2 | 1.4 | 1. | 2.5 | 2.7 | 3.4 | 3.2 | 9.9 | 5.6 | 5.2 | 3.8 | 9.7 | 1.1. | 14.1 | 6.9 | 14.2 | 100.0 |
| % % | | | | | | | | | | | | | | | | | X | |
| 48 - 55 | | | | | | | | | | | | | | | | | X | |
| 41 - 47 | 0. | | | | | | | | | | | | | | | | X | 0. |
| 34 - 40 | | | | | | | | | | | 0. | | | | 0. | | X | 0. |
| 28 - 33 | 0. | | | | | | | 0. | 0 | | | | 0. | 0. | 0. | 0. | X | 0. |
| 22 - 27 | 0. | | | | 0. | | 0. | 0. | 0. | 0. | 0. | 0. | 0. | .1 | 0. | 0. | X | .2 |
| 17 - 21 | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 7. | .1 | 0. | 0. | 0. | .1 | .2 | -1. | 0. | X | 7. |
| 11 . 16 | | 0. | 0. | 0. | 0. | 0. | 1. | .2 | 4. | .3 | .4 | . 3 | 1.2 | 2.0 | 2.7 | 7. | X | 9.8 |
| 7 - 10 | 6. | . 2 | . 1 | 0. | .1 | .1 | .3 | 9. | 1.5 | 1.9 | 1.7 | 1.3 | 3.8 | 4.5 | 5.2 | 1.9 | X | 23.9 |
| 4. | 5.9 | 6. | .5 | .2 | 1. | 6. | 1.3 | 1.2 | 2.7 | 2.2 | 1.9 | 1.4 | 3.0 | 3.1 | 4.1 | 2.7 | X | 29.7 |
| | 2.7 | 1.1 | 8. | .5 | 1.7 | 1.6 | 1.8 | 1.1 | 2.0 | 1.2 | 1.2 | .7 | 1.5 | 1.2 | 1.9 | 1.6 | X | 22.8 |
| SPEED (KNTS) DIR. | z | ZNE | NE. | ENE | " | ESE | SE | SSE | 2 | SSW | SW | WSW | W | WWW | NW | MNN | CAUM | 14.2 |

DATA FROM NATIONAL CLIMATIC CENTER FEDERAL BUILDING - ASHEVILLE, N.C., 28801

238011

TOTAL NUMBER OF OBSERVATIONS

-214-

| ALL | Breeze | ALL | BOURS (L.E. | | |
|--------------------------------|--------------|-------------|----------------------|-----|--------------------|
| 1951 - 1960 | YEAR | THER | 101, 191 | NO. | VE GROUND |
| San Diego, Lindbergh Field, CA | STATION BARG | ALL WEATHER | 32°44', 117°10', 19' | 191 | CYDORG BYORK FIGHT |

DATA FROM NATIONAL CLIMATIC CENTER FEDERAL BUILDING - ASHEVILLE, N.C., 28801

TOTAL NUMBER OF OBSERVATIONS

-215-

PERCENTAGE FREQUENCY OF WIND (FROM HOURLY OBSERVATIONS) DIRECTION AND SPEED

| | | | | | | | | | , | | | | |
|-------------------|-------------|--------------|-----------|--------|-------|-------------|---------------------|-------|-------------------|--|--------|------|-----------------------|
| 059W Sa | San Dimas | | | | | 1 | 1/1 | /55 - | 1/1/55 - 12/31/59 | 1/59 | | | ALL |
| | | STATION MAME | 1 | | ALL | ALL WEATHER | ER | | | TLAN | | | ALL |
| | | 340 | , 90 | 1170 | 48, | 950', | 122 | N. Sa | n Dim | 34° 06', 117° 48', 950', 122 N. San Dimas Ave. | | I | 10 (LA.T.) |
| | ļ | | | | | 30 t | z | | | | 1 | | |
| | | | | | HEIGH | TABOVE | HEIGHT ABOVE GROUND | | | | l | | |
| MPH NPH OIL | | | | | | - | | | | | | * | MEAN WIND SPEED |
| z | | T | | L | L | \vdash | \dagger | Ī | | | | 3.5 | 2.2 |
| N N | | | | | | - | - | | | | | 5.9 | |
| ž | | | | | | | | | | | | 9.1 | 1.6 |
| ENE | | | | | | | _ | | | | | 8.3 | |
| , 2 | | | | | | - | | | | | | 0 | |
| ESE | | | | | | | | | | | | 3 | |
| SE | | | | | | | | | | | | 7 | |
| SSE | | | | | | | | | | | | 3.1 | |
| 8 | | | | | | | | | | | | 4.4 | 2 |
| SSW | | | | | | | | | | | | 6.2 | 2.4 |
| SW. | | | | | | | | | | | | 5.2 | |
| WSW | | | | | | | | | | | | 7.3 | |
| * | | - | | | | L | | | | | | 14.7 | |
| WHW | | | | , | | | | | | | | 9.7 | |
| MA | | | | | | | | | | | | 4.1 | |
| NOW | | | | | | | | | | | | 3.1 | 2.4 |
| | | | | | | | | | | | | | |
| CALA | \ \ / | \langle | \rangle | \geq | Z | / | \langle | X | \rangle | | \geq | | |

South Coast Air Quality Management District 9420 Telstar Avenue El Monte, CA 91731 These data are available on an hourly basis. Note:

Data from

18,651 100.2

PERCENTAGE FREQUENCY OF WIND (FROM HOURLY OBSERVATIONS) DIRECTION AND SPEED

| San Fernando | ALL |
|--|----------------|
| STATION MADE VEADS | Beets |
| ALL WEATHER | ALL |
| CLASS | MONTH (L.S.T.) |
| 34º 17', 118º 27', 1170, 14808 Lassen Ave. | |
| LOCATION | |
| 25' | |
| HEIGHT ABOVE GROUND | |

| Die | | | | | | | | | | | | at. | WIND |
|---|-------------|-----------|-------|------|---------|---------|--------|-------|---|---|--|--------|------|
| 2 | + | \dagger | | | | | | | | | | 8.2 | 5.3 |
| NNE NNE | - | - | | | | | | | | | | 9.4 | 4.0 |
| N. | | - | | | | | | | | | | 5.2 | 3.0 |
| ENE | - | | | | | | | | | | | 2.2 | 2.4 |
| , 1 | | | | | | | | | | | | 2.5 | 7.5 |
| 353 | L | | | | | | | | | | | 7.9 | 2.0 |
| 38 | - | - | | | | | | | | | | 13.0 | φ. |
| SSE | - | - | | | | | | | | | | 14.5 | 0.0 |
| - | | - | | | | | | | | | | 9./ | 4.1 |
| 35W | | | | | | | | | | | | 3.4 | 3.3 |
| SW. | | - | | | | | | | | | | 3.4 | 2.8 |
| WSW | | - | | | | | | | | | | 3,1 | 1 |
| * | - | - | | | | | L | | | | | 3.4 | 3.7 |
| WW | - | - | | | | | | | | | | 1.9 | 3.5 |
| N.W. | - | \vdash | | | | | | | | | | 0.9 | 7.4 |
| NOW | - | - | | | | | L | | | | | 6.6 | 7.7 |
| | - | H | | | | | | | | | | | |
| Culu | \setminus | V | X | X | X | X | X | X | X | X | X | | |
| | + | + | | | | | | | | | | 6.66 | 4.7 |
| Data from South Coast Air Quality Management District | outh | CORB | t Air | Qual | Lty Mai | nagemer | nt Dis | trict | | 0 | 200 TANA 200 | 34.777 | 777 |

TOTAL HUMBER OF OBSERVATIONS Data from South Coast Air Quality Management District 9420 Telstar Avenue El Monte, CA 91731 These data are available on an hourly basis.

Note:

KGI 045W 87A7160

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED

23234 BTATION

| MEAN WIND SPEED | 8.3 | 7.4 | 6.5 | 6.3 | 0.9 | 6.5 | 7.2 | 7.1 | 8.0 | 8.9 | 8.3 | 9.5 | 12.3 | 12.3 | 11.4 | 8.9 | | 9.5 |
|-------------------------|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|-----|-----------|-------|
| × | 1.7 | 1.8 | 3.3 | 2.4 | 2.4 | 2.3 | 3.7 | 2.7 | 3.5 | 3.2 | 4.1 | 6.1 | 17.0 | 23.3 | 13.0 | 2.0 | 7.4 | 100.0 |
| X1 X2 | | | | | | | | | | | | | | | | | X | |
| 48 - 55 | | | | | | | | | | | | | | | | | \bigvee | |
| 41 - 47 | | | | | | | | 0. | 0. | | | | | | | | X | 0. |
| 34 - 40 | | | | | | | | 0. | 0. | 0. | 0. | 0. | 0. | 0. | | | X | 0. |
| 28 - 33 | 0. | 0. | 0. | | | 0. | 0. | 0. | 0. | 0. | 0. | 0. | .1 | .1 | 0. | 0. | X | .4 |
| 22 - 27 | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | | .1 | | .1 | 1.1 | 1.2 | е. | 0. | X | 3.2 |
| 17 - 21 | 1. | .1 | 0. | 0. | 0. | 0. | .1 | .1 | .2 | .2 | .3 | 5 | 2.9 | 4.4 | 2.1 | .1 | X | 11.2 |
| 11 - 16 | .3 | .2 | .2 | .2 | .1 | .2 | .5 | . 4 | .5 | 9. | 8. | 1.6 | 5.6 | 7.3 | 4.3 | • 5 | X | 23.2 |
| 7 - 10 | . 4 | .5 | .1 | .7 | .7 | .7 | 1.2 | .7 | .7 | .7 | 1.0 | 2.1 | 4.5 | 6.2 | 3.9 | 9. | X | 25.8 |
| 4.6 | 5. | . 7 | 1.4 | 1.2 | 1.1 | 6. | 1.2 | 6. | 1.2 | 6. | 1.1 | 1.2 | 2.0 | 3.0 | 1.7 | .5 | X | 19.6 |
| 1.3 | .3 | .3 | .5 | . 4 | .5 | .5 | .7 | 9. | 8. | 9. | 8. | 9. | 6. | 6. | .7 | .3 | X | 9.2 |
| SPEED (KNTS) DIR, | z | azz. | Z. | ENE | m. | ESE | SE | SSE | S | SSW | sw. | WSW | W | WRW | WW | MNN | CAUM | 7.4 |
| | | | | | | | | | | | | | | | | | | |

DATA FROM NATIONAL CLIMATIC CENTER FEDERAL BUILDING - ASHEVILLE, N.C., 28801

-218-

150260

| ALL | posts. | ALL | HOURS (L.s.T.) | | | |
|--|--------------|-------------|----------------|-------------------------|----------|---------------|
| Sangus, CA January 1934 thru December 1938 | STATION MANG | ALL WEATHER | CLASS | 34 24', 118 33', 1,207' | LOCATION | HEIGHT ABOUND |
| | 87A7408 | | | | | |

| MPH | 4-15 | 16-31 | 16-31 32-47 | 24 < | | | | | | | | * | WIND |
|------|-----------|-----------|-------------|------|-----------|-----------|-----------|---|-----------|---|-----------|-------|--------|
| Z | 0 | 7.0 | 0.0 | | | | | | | | | α | aver a |
| W.Z. | | 0.2 | 0.0 | | | | | | | | | | |
| Z | 2.4 | 1.5 | 0.0 | | | | | | | | | | |
| ENE | 0.4 | 0.4 | 0.0 | | | | | | | | | 0.8 | |
| , 1 | 6.0 | 0.1 | 0.0 | | | | | | | | | 1 | |
| ESE | 0.3 | 0.0 | | | | | | | | | | 7.0 | |
| 38 | 15.0 | 3.2 | 0.0 | | | | | | | | | 18.1 | |
| SSE | 3.7 | 0.8 | 0.0 | | | | | | | | | 4.5 | |
| s | 11.2 | 0.5 | 0.0 | | | | | | | | | 11.7 | |
| SSW | 6.0 | 0.0 | | | | | | | | | | 1.0 | |
| SW | 4.3 | 0.2 | | | | | | | | | | 7.7 | |
| WSW | 2.0 | 0,1 | | | | | | | | | | 0.7 | |
| * | 3.1 | 0.1 | | | | | | | | | | 3.5 | |
| WHW | 0.7 | 0.0 | | | | | | | | | | 0.7 | |
| WW | 0.9 | 1,5 | 0.1 | | | | | | | | | 7.6 | |
| NNW | 1.0 | 0.5 | 0.0 | | | | | | | | | 1.5 | |
| | | | | | | | | | | | | | |
| CALM | \bigvee | \bigvee | X | X | \bigvee | \bigvee | \bigvee | X | \bigvee | X | \bigvee | 36.6 | |
| 36.6 | 53.6 | 9.6 | 0.2 | | | | | | | | | 0.001 | |

43,747

| ALL | MANA | ALL | HOURS (1.8.7.) | | | |
|--------------|--------------|-------------|----------------|----------------------|----------|---------------------|
| 1937 - 1947 | TEARS | ALL WEATHER | CLASS | 37°22', 121°55', 60' | LOCATION | HEIGHT ABOVE GROUND |
| San Jose, CA | STATION MAMS | | | | | |
| | 87A7408 | | | | | |

| | MEAN WIND SPEED | | | | | | | | | | 0 001 |
|---|-----------------------|-----|-----|-----|------|-----|------|-----|---------------|---|-------|
| | | | | | | | | | | X | - |
| | | | | | | | | | | X | |
| | | | | | | | | | | | |
| | | | | | | | | | | X | |
| | | | | | | | | | $\frac{1}{1}$ | Ň | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| - | 1 16 | 0.3 | 0.0 | | 1.4 | 0.1 | 0 | 0. | 1.6 | X | 000 |
| | 4-15 | 7.3 | 0.7 | 1.0 | 14.2 | 8.9 | 3.8 | 4.8 | 35.1 | M | 100 |
| | 0-3 | | | | | | | | | X | 000 |
| | SPEED MPH DIR. | z | Z | - | SE | 8 | S.W. | * | MW | | |

DATA FROM NATIONAL CLIMATIC CENTER FEDERAL BUILDING - ASHEVILLE, N.C., 28801

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

| ALL | #POAT# | ALL | HOURS (L.R.T.) | | | |
|--------------------------|--------------|-------------|----------------|-----------------------|----------|-------------------|
| May 1951 thru April 1956 | 75.446 | ALL WEATHER | CLAss | 35°15′, 120°40′, 200′ | LOCATION | CHICAS INCAMENTAL |
| San Luis Obispo Co. AP | STATION NAME | ALL | | 35015', | | CULT |

| MEAN WIND SPEED | | | | | | | | | | | | | | | | | | |
|-----------------------|-----|-----|-----|-------|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|-----|-----|-----------|-------|
| Ж | 0.7 | 0 | 0.6 | C | 3.6 | 7.5 | 0 | C | 7 | - | 7 | 0 | 49.5 | 0 | 0 | | 23.8 | 100.0 |
| | | | | | | | | | | | | | | | | | X | |
| | | | | | | | | | | | | | | | | | X | |
| | | | | | | | | | | | | | | | | | X | |
| | | L | | | | | | | | | | | | | | | X | |
| | | | | | | | | | | | | | | | | | X | |
| | | | | ŀ | | | | | | | | | | | | | \bigvee | |
| > 25 | 0.0 | | | | | 0.0 | 0.0 | | | | 0.0 | | 0 | 0.0 | | | \bigvee | 6.0 |
| 4-10 11-15 16-25 | 0.0 | | 0.1 | 0.0 | 0.1 | 0.1 | 0.2 | 0.1 | 0.1 | 0 | 0.0 | 0.0 | 6.7 | 0.3 | 0.3 | 0.1 | \bigvee | 11.2 |
| 11-15 | 1.0 | 0.1 | 0.0 | | 0.2 | 0.1 | 0.2 | 0.1 | 0.4 | 0.1 | 0.2 | 0.1 | 10.4 | 0.4 | 7.0 | 0.1 | X | 13.0 |
| 4-10 | 0.4 | 0.1 | 0.4 | 0.1 | 1.6 | 6.0 | 1.0 | 0.5 | 2.3 | 0.8 | 1.9 | 1.3 | 22.8 | 1,3 | 1,4 | 0.2 | \bigvee | 36.9 |
| 1-3 | 0.2 | 0.0 | 0.2 | 0.0 | 1.6 | 0.3 | 1,2 | 0.3 | 1.3 | 0.2 | 1.9 | 9.0 | 5.8 | 0.2 | 0.4 | 0.0 | \bigvee | 14.2 |
| SPEED MPRH | z | NNE | × | INE . | , 3 | ESE | SE | SSE | ~ | SSW | SW | WSW | * | WHW | MM | NNW | CALM | 23.8 |

DATA FROM NATIONAL CLIMATIC CENTER FEDERAL BUILDING - ASMEVILLE, N.C., 28801

TOTAL NUMBER OF OBSERVATIONS

17,786

-221-

| ALL | ALL *********************************** | |
|---|--|---------------|
| San Miguel Is. February 1940 thru June 1942 | ALL WEATHER chass 34°03', 120°21', 551' LOGATION | HEIGHT ABOUND |
| San | | |

| SPEED | | | | | 7.1 | 1 | | | | | | | ME |
|-------------|-----|------|-----------|------------------------|-----------|---------|---|-----------|---|---|---|-------|----------|
| MPH DIR. | 1-3 | 4-12 | 13-24 | 4-12 13-24 25-31 32-40 | 32-40 |). 1 | | | | | | ył. | WIND |
| z | 9.0 | 0.8 | 0.1 | | | | | | | | | 1.6 | 5.1 |
| NX. | 0 | 0.7 | 0.1 | | | | | | | | | 1.1 | 5 |
| Z | | 0.7 | | | | | | | | | | 1.1 | 8.4 |
| ENE | 0.0 | 9.0 | 0.1 | | | | | | | | | 0.8 | ∞ |
| | 4.0 | 9.0 | 0.3 | | | | | | | | | 1.3 | 7.9 |
| ESE | 0.0 | 9.0 | 0.3 | | | | | | | | | 1.0 | 10 |
| SE | 9.0 | 1.2 | 9.0 | | | | | | | | | 2.5 | 6 |
| 358 | 0.0 | 1,4 | 2.0 | 0.5 | 4.0 | | | | | | | 7. 7 | 18.2 |
| 57 | 2.0 | 1.9 | 0.7 | | | | | | | | | 4.€ | 8 |
| SSW | 0,1 | 1.8 | 0.7 | | | | | | | | | 2,8 | 11,4 |
| 3W | 1,1 | 2.3 | 0.4 | | 0.1 | | | | | | | 4,1 | 7.4 |
| WSW | 0.5 | 2,4 | 0.8 | | | | | | | | | 3.4 | 6 |
| * | 0.5 | 2.2 | 0.8 | | | | | | | | | 3.6 | ω |
| WHW | 4.0 | 8.0 | 12.8 | 4.7 | 2.5 | 0.1 | | | | | | 28.6 | 18 |
| MM | 1,5 | 5.9 | 5.6 | 2.9 | 2.2 | | | | | | | 18.2 | 17.3 |
| MNM | 0.1 | 3.3 | 10.5 | 5.0 | 3.1 | | | | | | | 22.1 | 21 |
| | | | | | | | | | | | | | |
| CALM | X | X | \bigvee | \bigvee | \bigvee | X | X | \bigvee | X | X | X | .1 | 16.2 |
| 0.1 | 7.6 | 34.3 | 35.8 | 13.5 | 8.4 | 0.1 | | | | | | 100.0 | |

DATA FROM NATIONAL CLIMATIC CENTER FEDERAL BUILDING - ASHEVILLE, N.C., 28801

54,791

TOTAL NUMBER OF OBSERVATIONS

-222-

PERCENTAGE FREQUENCY OF WIND FROM HOURY ORSERVATIONS! DIRECTION AND SPEED

| | ALL | MONTA | ALL | BOURS (L.S.T.) | | |
|----------------------------|--|--------------------|-------------|---|-----|---------------------|
| (FROM HOURET OBSERVATIONS) | SAN NICOLAS ISLAND, CALIF PMR 45,47-72 | STATION NAME TEASS | ALL WEATHER | 33 ⁹ 15', 119 ⁹ 28', 502! cL*** | 131 | HEIGHT ABOVE GROUND |

93116

| WEAN WIND SPEED | 6.5 | | | 8.7 | | 9.9 | 6.4 | 7.1 | 7.0 | 7.0 | 7.1 | 8.0 | 8.0 | 11.6 | 13.5 | 10.0 | | 6.6 |
|-------------------------|-----|------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|-------|
| 34 | 5.1 | 1.9 | 2.3 | 2.5 | 3.0 | 1.3 | 1.7 | 1.4 | 3.0 | 1.7 | 2.4 | 2.0 | 6.3 | 11.9 | 37.4 | 10.4 | 5.6 | 100.0 |
| % A1 | | | | | | | | | | | | | | | | | X | |
| 48 - 55 | | | | | | | | | | | | | | | 0. | | X | - |
| 41 - 47 | 0. | | | | | | | | | | | | | | 0. | | X | 0 |
| 34 - 40 | 0. | | | | | | | | | | | 0. | 0. | 0. | .1 | | X | - |
| 28 - 33 | 0. | | | 0. | 0. | | | | 0. | | 0. | 0. | 0. | .2 | .7 | ,1 | X | 1.1 |
| 22 - 27 | 0. | 0. | 0. | .1 | 0. | 0. | 0 | 0. | 0. | 0. | 0. | .1 | .1 | 9. | 3.5 | .3 | X | 8 |
| 17 - 21 | .1 | 0. | 0. | .2 | .1 | 0. | 0. | 0. | 4. | .1 | -1 | .1 | ۳. | 1.4 | 6.8 | 8. | X | 10.1 |
| 11 - 16 | .5 | .1 | .1 | .5 | .3 | .1 | .2 | .2 | 4. | .2 | .2 | .2 | 1.0 | 3.7 | 12.5 | 2.6 | X | 22.7 |
| 7 - 10 | 1.5 | . 4 | . 4 | 9. | ω. | . 4 | .5 | 4. | 6. | 9. | ω. | 9. | 1.7 | 3.4 | 8.9 | 3.7 | X | 25.5 |
| 9.4 | 2.1 | 8. | 1.0 | 8. | 1.2 | .5 | .7 | .5 | 1.1 | 9. | 6. | .7 | 2.1 | 1.9 | 3.7 | 2.2 | X | 20.9 |
| 1.3 | 1.0 | 9. | 8. | 4. | 9. | .3 | 4. | .2 | .5 | .3 | 4. | .3 | 1.0 | 9. | 1,2 | 9. | X | 9.2 |
| SPEED (KNTS) DIR. | z | NNE SNE | ž | ENE | E | ESE | SE | SSE | S | SSW | SW. | WSW | w | WNW | NW | MNN | CALM | 5.6 |
| | | | | | | | | | | | | | | | | _ | | |

FEDERAL BUILDING - ASHEVILLE, N.C., 28801 DATA FROM NATIONAL CLIMATIC CENTER

112227

| ALL | MOSTR | BOURS (LS.T.) | | |
|---------------------------------|--------------|------------------------|----------|---------------------|
| July 1929 through February 1939 | VZA65 | 259 | LOCATION | HEIGHT ABOVE GROUND |
| San Pablo, CA | STATION NAME | 37° 59', 122° 21', 259 | | HEIGH |

STo Tion

| 38 - | 2.0 | 7.4 | 0.2 | 1.7 | 0.0 | 1.5 | 0.5 | 11,9 | 12.1 | 28.0 | 0.2 | 7.4 | 0.2 | 1.9 | 0.0 | 27.9 | 100.0 |
|---------------|------|-----|-----|-----|-----|-----|-----|------|------|------|-----|-----|-----|-----|-----|------|-------|
| | | | | | | | | | | | | | | | | V | Г |
| | | | | | | | | | | | | | | | | Ň | |
| | | | | | | | | | | | | | | | | X | |
| | | | - | | | | | | | | | | | | | X | |
| | | | | | | | | | | | | | | | | X | |
| | | | | | | | | | | | | | | | | X | |
| | | | | | | | | | | | | | | | | X | |
| 247 | | | | | | | | | | | | | | | | X | |
| 16-31 32-47 | | 0.0 | | | | 0.0 | 0.0 | | 0.1 | 0.0 | | o.º | | 0.0 | | X | 0.1 |
| 16-31 | 0.0 | - | 0,1 | 0.1 | 0.0 | 0,2 | 0.0 | 5,6 | 4.1 | 7.7 | 0.0 | 9.0 | 0.0 | 0.5 | 0.0 | X | 17.2 |
| 4-15 | 0 | 3.2 | 0.1 | 0.7 | 0.0 | 0.7 | 0.2 | 5.5 | 7.4 | 13.5 | 0.1 | 2.2 | 0.1 | 1.0 | 0.0 | X | 32.5 |
| 1-3 | 4.0 | 3.2 | 1.0 | 6.0 | 0.0 | 9.0 | 0.2 | 3.7 | 3.6 | 8.9 | 0.1 | 1.5 | 0.1 | p.0 | 0.0 | X | 25.2 |
| SPEED MR.H | N.N. | Z | ENE | E | ESE | SE | SSE | 2 | SSW | SW | WSW | * | WNW | NW | MNN | CALM | 27.9 |

M OHEHADINOMHANDE

DATA FROM NATIONAL CLIMATIC CENTER FEDERAL BUILDING - ASHEVILLE, N.C., 28801

TOTAL NUMBER OF OBSERVATIONS

18,487

-224-

SNA

| : | ALL | ALL | MOUNT (L.C.T.) | | | |
|----------------|---------------|-------------|------------------------|----------|-----|---------------------|
| 2/55 - 1/72 | TAME | ALL WEATHER | 33° 40', 117° 53', 54' | LOCATION | 30, | HEIGHT ABOVE GROUND |
| Santa Ana OCAP | 87AT100 MAM & | | 330 401, | | | |
| 065W | 87x7x84 | | | | | |

| SPEED | | | | | | | | | | | L | | - |
|-----------|---|---|---|---|---|---|---|---|---|---|---|--------|----|
| DIR. | | | | | | | | | | | | × | |
| z | | | | | | | | | | | | 2 5 | 4 |
| NNE | | | | | | | | | | | | 4 | 1 |
| Z. | | | | | | | | | | | | 0 | 1 |
| EN EN | | | | | L | | | - | | | | 200 | 4 |
| . 3 | | | | | | | | | | | | 7.0. | 4 |
| ESE | | | | | | - | 1 | - | - | | | 13.5 | 4 |
| 38 | | | | | | - | 1 | - | | | | 3.2 | 4 |
| 358 | | | | | | - | - | - | 1 | | | 5.9 | _ |
| 2 | | T | | | | - | | - | - | | | 2,2 | _1 |
| SSW | | | | | | - | 1 | - | | | | 3 | _ |
| SW | | | | | | - | _ | - | - | | | 9.0 | 1 |
| WSW | | T | | | | - | 1 | 1 | 1 | | | 18.9 | |
| 3 | | T | | | | | | | 1 | | | χ χ | |
| The Party | | 1 | | | | | 1 | 1 | | | | 10.6 | |
| | | 1 | | | | | | | | | | 1.5 | L |
| MM | | 1 | | | | - | | | | | | 3.1 | |
| MNW | - | 1 | | | | | | | | | | 9.0 | L |
| 1 | 1 | 1 | | | | - | | | | | | | |
| CALM | X | V | X | X | X | X | X | A | X | X | X | - | |
| | | | | | | | | | | | | 1001 | 1 |

ocussis odes Alf Quality Management District EL Monte, CA 91731 These data are available on an hourly basis. Note:

68,841

HOURS (L.S.T.) ALL ALL YEARB 45-47.51-72 HEIGHT ABOVE GROUND WEATHER LOCATION 117°50',62' SANTA ANA, CALIFORNIA MCAF 330 42', 101

93114

| September Sept | MEAN WIND SPEED | 4.1 | 9.9 | | 7.5 | | 5.1 | 5.1 | | 5.4 | 6.3 | 7.2 | 7.4 | 6.7 | 5.9 | 4.5 | 4.8 | | | 4.6 |
|--|-------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|-----|-----|-----|-------|-----------|-------|
| 1.3 | × | 1.0 | 6. | 2.8 | 2.0 | 4.2 | 2.6 | 3.1 | 2.0 | 3.9 | 4.5 | 15.2 | 13.7 | 11.0 | 2.0 | 1.4 | 9. | | 28.9 | 100.0 |
| 1.3 | VI 98 | | | | | | | | | | | | | | | | | | \bigvee | |
| 1.3 | 48 - 55 | | | | | | | | | | | | | | | | | | \bigvee | |
| 1.3 | 41 - 47 | | | | 0. | | | | | | | | | | | | | | \bigvee | 0. |
| 1.3 4.6 7.10 11.16 17.21 22.27 1.0 .7 .3 .4 .1 .0 .0 .0 1.0 .7 .3 .4 .1 .0 .0 .0 1.0 .7 .3 .4 .1 .0 .0 1.7 1.4 .4 .1 .0 .0 1.0 1.4 .6 .1 .0 .0 1.1 1.5 .0 .4 .1 .0 .0 1.2 1.6 .8 .2 .1 .0 .0 1.8 4.2 3.9 .9 .1 .0 1.8 4.2 3.9 .9 .1 .0 27 .1 .2 .0 .0 1.8 4.2 3.9 .9 .1 .0 .0 27 .1 .2 .0 .0 .0 27 .1 .2 .0 .0 .0 1.2 2.0 23.0 5.7 .9 .3 | 34 - 40 | | 0. | 0. | 0. | | | | 0. | | | | | 0. | 0. | | | | X | 0. |
| 1.3 4.6 7.10 11.16 17.21 22. 1.0 1.1 1.0 0.0 1.0 1.2 1.3 1.1 1.0 1.1 1.2 1.6 1.8 1.2 1.0 1.2 1.6 1.8 1.1 1.0 1.2 1.6 1.8 1.1 1.0 1.3 1.1 1.5 1.1 1.0 1.4 1.5 1.1 1.5 1.1 1.8 4.2 3.9 4.4 1.0 1.9 1.7 1.9 1.7 1.3 1.0 1.0 1.4 1.5 1.1 1.8 4.2 3.9 4.4 1.0 1.9 1.7 1.9 1.7 1.3 1.0 1.1 2 4.6 6.4 1.5 1.1 1.8 4.2 3.9 4.1 1.0 1.9 1.1 1.2 4.6 1.0 1.9 1.1 1.2 1.0 1.0 1.9 1.1 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 | 28 - 33 | | 0. | 0. | 0. | | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | | | X | .1 |
| 1.3 4.6 7.10 11.16 17. 1.5 4.4 1.1 .0 1.0 7 3.3 3.3 1.0 1.4 4.4 1.1 1.0 1.4 6.1 1.0 1.4 .6 1.1 1.5 1.6 .8 1.2 1.6 .8 1.3 1.5 1.5 1.4 2.1 0.5 1.5 2.0 23.0 5.7 1.4 2 27.0 23.0 5.7 | 22 - 27 | | 0. | .1 | .1 | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | | X | .3 |
| 1.3 4.6 7.10 11. 1.0 1.7 2.4 2.1 2.10 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 | 17 - 21 | 0. | 0 | • 2 | .1 | 0. | 0. | 0. | 0. | 0. | | .1 | . 1 | | 0. | 0. | 0. | | X | 6. |
| 1.3 4.6 7. 1.0 1.4 1.0 1.4 1.0 1.1 1.2 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 | 11 . 16 | 0. | .1 | .4 | .3 | .1 | -1 | | .1 | .2 | .3 | 1.5 | 1.5 | 6. | ٦. | 0. | 0. | | X | 5.7 |
| 1.3 2.2 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 | 7 - 10 | ,1 | .1 | .3 | .3 | 4. | 4. | 9. | .4 | ω. | 1.7 | 7.1 | 6.4 | 3.9 | .4 | .2 | .1 | | X | 23.0 |
| | 4.6 | 4. | .3 | .7 | .7 | 2.0 | 1.4 | 1.4 | 6. | 1.6 | 1.9 | 5.0 | 4.6 | 4.2 | 6. | .7 | .3 | | X | 27.0 |
| SPEED (KANTS) DIR. SPEED SEED SEED SEED SEED SEED SEED SEE | 1.3 | 5. | .3 | 1.0 | 9. | 1.7 | .7 | 1.0 | 9. | 1.2 | .7 | 1.6 | 1.2 | 1.8 | .5 | .5 | .2 | | X | 14.2 |
| | SPEED (KNTS) DIR. | z | NNE | NE | ENE | 2 | ESE | SE | SSE | S | SSW | »s | WSW | * | WHW | WW | NNN | VARBL | CAUA | 28.9 |

DATA FROM NATIONAL CLIMATIC CENTER FEDERAL BUILDING - ASHEVILLE, N.C., 28801

130408

TOTAL NUMBER OF OBSERVATIONS

-226-

| ALL | ALL | BRUSE (L.E.T. | |
|-------------------------|-------------|--|-------------------------|
| 1960 through 1964 | ALL WEATHER | 13 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 | 02170 80 820 84 Publish |
| 23190 Santa Barbara, CA | ALL | 340 261, 1190 501, 13 | 0.00 |
| 23190 | | | |

| MEAN WIND SPEED | 6.7 | 6.1 | 5.5 | 6.2 | 7.2 | 8.1 | 7.4 | 7.3 | ۴.8 | 7.0 | 1. | 9.1 | 9.5 | 4.0 | 8.5 | 8.9 | | 7.6 | |
|-----------------------|-----|-----|-----|------|-----|-----|-----|------|-----|-----|-----|------|-----|-----|-----|-----|------|-----------|-------|
| N. | 2.3 | 2.8 | 4.5 | 7.77 | 4.8 | 3.8 | 6.5 | 5.5 | 4.5 | 3.9 | 6.1 | 10.0 | 9.9 | 2.4 | 2.1 | 1.6 | | 28.3 | 100.0 |
| | | | | | | | | | | | | | | | | | | X | |
| | | | | | | | | | | | | | | | | | | X | |
| | | | | | | | | | | | | | | | | | | X | |
| | | | | | | | | | | | | | | | | | | X | |
| | | | | | | | | | | | | | | | | | | X | |
| > 21 | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | | | | | 0.0 | 0.0 | | 0.0 | 0.0 | 22.8 | X | 0.1 |
| 17-21 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.1 | 0.0 | 0.0 | | | 0.0 | 0.2 | 0.2 | 0.2 | 0.1 | 0.1 | 18.2 | X | 1.1 |
| 4-6 7-10 11-16 | 0.3 | 0.2 | 0.1 | 0.1 | b.0 | 2.0 | 9.0 | 0.3 | 0.1 | 0.1 | 0.7 | 5.5 | 1.9 | 0.7 | 0.5 | 0.5 | 12.8 | X | 2.6 |
| 7-10 | 0.5 | 9.0 | 1.0 | 1.5 | 2.0 | 1.8 | 3.5 | 3.1 | 2.4 | | | 5.0 | 2.7 | 0.7 | 0.5 | 0.4 | 8.3 | \bigvee | 31.2 |
| 9-4 | 1.3 | 1.8 | 3.0 | 2.4 | 2.1 | 1.2 | 2.1 | 1.7 | 1.7 | 1.4 | 1.7 | 2.1 | 1.6 | 0.7 | 0.8 | 0.6 | 5.1 | X | 26.3 |
| 1-3 | 0.2 | 0.2 | 0.5 | 0.3 | 0,2 | 0.1 | 0,3 | 0,3 | 0.2 | 0,1 | 0.3 | 0.2 | 0.2 | 0,1 | 0.1 | 0,1 | 2,5 | \bigvee | 3.4 |
| (KATES) | z | NNE | Z | ENE | , 1 | ESE | SE | \$5E | 8 | SSW | 3W | WSW | * | WHW | MM | MNN | AVG | CALM | 28.3 |

DATA FROM NATIONAL CLIMATIC CENTER FEDERAL BUILDING - ASHEVILLE, N.C., 28801

| ALL | ALL | BOURS (L.S.Y. | | |
|-----------------------------|--------------------------|-------------------------|----------|---------------------|
| Avalon, CA June 1943 throug | STATION MANS ALL WEATHER | 330 22', 1180 29', 450' | LOCATION | HEIGHT ABOVE GROUND |

87A7108

| MEAN WIND SPEED | 6.9 | 6.5 | 5.0 | 7.0 | 6.9 | 9.5 | ж 8 | 10.3 | 7.7 | 7.0 | 6.3 | 7.8 | 8,5 | 7.3 | 6.9 | 6.5 | 6.5 | |
|-----------------------|-----|-----|-----|-----|-----|-----|--------|------|-----|-----|-----|-----|-----|-----|-----|------|-------------|-------|
| N. | 1,1 | 5.5 | 3.3 | 2.9 | 8 | 0.0 | 10.0 | 2.4 | 2.2 | 1.9 | 5.9 | 8.7 | 7.2 | 8.0 | 7.0 | 10.2 | 10.8 | 100.0 |
| | | | | | | | | | | | | | | | | | \bigvee | |
| | | | | | | | | | | | | | | | | | X | |
| | | | | | | | | | | | | | | | | | X | |
| | | | | | | | | | | | | | | | | | X | |
| | | | | | | | | | | | | | | | | | X | |
| 245 | | | | | | | 0.2 | 0.0 | | | | | | | | | \setminus | 0.2 |
| 32-46 | | 0.0 | | | 0.0 | 0.2 | 0.2 | 0.0 | | | | | 0.0 | 0.0 | | 0.1 | X | 0.5 |
| 13-24 25-31 32-46 | 0.0 | 0.1 | | 0.0 | 0.1 | 0.0 | ٥.2 | 0.1 | 0.1 | 0.0 | 0.0 | | 0.2 | 0.0 | 0.0 | 0.1 | X | 1.1 |
| 13-54 | 0.0 | 0.3 | 0.1 | 0.3 | 0.3 | 0.1 | 0.8 | | 0.1 | 0.2 | 4.0 | 0.8 | 1.1 | ο.β | 0.5 | 7.0 | X | 6.5 |
| 4-12 | 0.7 | 3.6 | 2.0 | 5.5 | 9.8 | 0.7 | 6.9 | 1.4 | 1.6 | 1.3 | 4.1 | 7.2 | 9.4 | 5.9 | 5.5 | 7.5 | X | 65.4 |
| 1-3 | 0.3 | 1.5 | 1.2 | 6.0 | 1.1 | 0.1 | 1.7 | 7.0 | 0.3 | 0.4 | 1.4 | 0.7 | 1.3 | 1.3 | 1.0 | 2.1 | X | 15.5 |
| SPEED MPH | z | Z Z | ž | SNS | | ESE | SE | SSE | s | SSW | S.W | WSW | * | WHW | XX | WWW | CAUA | 10.8 |

DATA FROM NATIONAL CLIMATIC CENTER FEDERAL BUILDING - ASHEVILLE, N.C., 28801

TOTAL NUMBER OF OBSERVATIONS 6, 305

-228-

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

ALL BOURS (LR.T.) ALL July 1939 through February 1942 ALL WEATHER 1634 LOCATION CLASS 1180 21', Santa Catalina Island, 330 24'. Buffalo Springs.

HEIGHT ABOVE GROUND

WIND WIND SPEED

| × | 3.4 | 0.7 | 4.5 | 0.7 | 3.2 | 0.7 | 5.6 | 6.0 | 3.9 | 1.6 | 23.4 | 4.9 | 8.1 | 2.2 | 8.3 | 1.4 | 26.7 | 100.0 |
|-----------------------|-----|-----|-----|-----|-----|-----|-----|------|-----|-----|------|-----|-----|-----|-----|-----|-------------------|-------|
| | | | | | | | | | | | | | | | | | X | |
| | | | | | | | | | | | | | | | | | X | |
| | | | | | | | | | | | | | | | | | X | |
| | | | | | | | | | | | | 1 | | | | | X | |
| | | | | | | | | | | | | | | | | | X | |
| | | | | | | | | | | | | | | | | | X | |
| 2.1 | | | | | | | | | | | | | | | | | $\langle \rangle$ | |
| ^ | | | | | | | 0.1 | | | | 0.0 | | | | | | X | 0.1 |
| 32-47 | 0.0 | | 0.0 | | | | 0.1 | | 0.1 | 0.0 | 0.1 | 0.0 | 0.1 | | 0.0 | | X | 7.0 |
| 4-15 16-31 32-47 > 47 | 0.2 | 0.1 | 0.7 | 0.1 | 0.3 | 0.1 | 1.1 | 0.2 | 0.7 | 0.2 | 3.9 | 1.0 | 2.0 | 0.4 | 1.7 | 0.1 | \bigvee | 12.7 |
| 4-15 | 3.2 | 0.7 | 3.8 | 9.0 | 5.9 | 9.0 | 4.4 | 10.7 | 3.1 | 1.4 | 19.5 | 3.9 | 5.7 | 1.8 | 9.9 | 1.3 | \bigvee | 60.1 |
| SPEED MPH DIR. | z | NNR | Z | ENE | | ESE | 38 | SSE | S | SSW | SW | WSW | * | WNW | NW | NNW | CALM | 26.7 |

PATA FROM NATIONAL CLIMATIC CENTER FEDERAL BUILDING - ASMEVILLE, N.C., 28801

7,522

TOTAL NUMBER OF OBSERVATIONS

-229-

| ALL | ALL | BOURS (L.S.T.) | | |
|---------------------|-----------|------------------------|----------|--------------|
| WBAs 1948 thru 1958 | | 340 56', 1200 27', 230 | LOCATION | C21C00 02C01 |
| Santa Maria, WBAs | | 340 | 101 | |
| 28273 | BTA 7 808 | | | |

| MEAN WIND SPEED | 8 | 10.0 | 7.6 | 5.5 | 9 | 9 | 7.1 | 8 | 9 | 9 | 9.0 | 7.4 | 8 | 9.6 | 7.5 | 9.9 | 6.1 | |
|------------------------|-----|------|-----|-----|-----|-----|-----|-------|-----|-------------|-----|-----|------|------|-----|-----|------|-------|
| × | 2.2 | 2.3 | 2.6 | 1,8 | 6.7 | 4.1 | 9.4 | 1.8 | 1.6 | 1,3 | 3.3 | 5,1 | 15.5 | 16.5 | 2.9 | 1.5 | 27.8 | 100.0 |
| | | | | | | | | | | | | | | | | | X | |
| | | | | | | | | | | | | | | | | | X | |
| | | | | | | | | | | | | | | | | | X | |
| | | | | | | | | | | | | | | | | | X | |
| | | | | | | | | | | | | | | | | | X | |
| >40 | | | | | | | | | | | | | | | | | X | |
| 28-40 | | 0.0 | 0.0 | 0.0 | | 0.0 | 0.0 | 0.0 | 0.0 | 0°0 | | | | | | | X | 0.1 |
| 4-10 11-21 22-27 28-40 | 0.0 | 0.1 | 0.1 | 0.0 | | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0,1 | 0.1 | 0.0 | 0.0 | X | 9.0 |
| 11-21 | 2.0 | 6.0 | 0.5 | 0,1 | 0.2 | 0.3 | 0.8 | 0.5 | 0.2 | 0.2 | 0.3 | 0.9 | †°† | 5,4 | 1.2 | 0,2 | X | 16.8 |
| 4-10 | 1,1 | 1.0 | 1.2 | | 5.2 | 5.9 | | | 0.8 | | 2.0 | 3.3 | 7.6 | 9.8 | 4.5 | 1.0 | X | 47.9 |
| 1-3 | 0.5 | 0.3 | 0.8 | 0.5 | 1.2 | 8.0 | 0.8 | ₽.0 I | 0.5 | 7. 0 | 6.0 | 6.0 | 9.1 | 1,2 | 6.0 | 0.3 | X | 12.0 |
| SPEED Knots DIR. | z | N.N. | Z. | ENE | | ESE | SE | \$\$£ | 8 | SSW | AS. | WSW | * | WHW | WW | NNW | CAUA | 21.8 |
| | | | | | | | | | | | | | | | | | | |

ONING HONENHEON CON

DATA FROM NATIONAL CLIMATIC CENTER FEDERAL BUILDING - ASHEVILLE, N.C., 28801

PERCENTAGE FREQUENCY OF WIND (FROM HOURLY OBSERVATIONS) DIRECTION AND SPEED

| ALL | ALL | B0088 (L8.7.) | |
|-------------------------------|-------|-----------------------|----------|
| April 1943 thru December 1945 | ATHER | 38°25', 122°45', 105' | LOCATION |
| Santa Rosa, CA AAF | ALL | 38°25', 123 | 1967 |

| MEAN WIND SPEED | 7.8 | 0 | 6.5 | 4.5 | 4.3 | 5 | 6.0 | 2 | 7.2 | 8 | 6.7 | 0.0 | 8 9 | 0 | CC. | 0 | 5.8 | |
|-----------------------|-----|-----|-----|-----|-----|-----|------|------|------|-----|-----|-----|-----|-----|-----|-----|-----------|-------|
| * | 0.9 | 1.6 | 2.3 | 7.0 | 1.6 | 1.6 | 13.3 | 7 80 | 14.3 | 4.2 | 7.9 | 2.1 | 7.7 | 0. | 7.7 | 2.7 | 20.3 | 100.0 |
| | | | | | | | | | | | | | | | | | X | |
| | | | | | | | | | | | | | | | | | X | |
| | | | | | | | | | | | | | | | | | X | |
| | | | | | | | | | | | | | | | | | X | |
| | | | | | | | | | | | | | | | | | X | |
| 2 47 | | | | | | | | | | | | | | | | | X | 0.0 |
| 32-46 | | | | | | | | | | | | | | | | | X | 0.1 |
| 13-24 25-31 32-46 | 0.0 | 0.1 | 0.0 | | | 0.0 | 0.0 | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.0 | X | 0.4 |
| 13-24 | 0.8 | 0.3 | 0.3 | 0.0 | 0.0 | 0.0 | 0.8 | 1.1 | 1.7 | 9.0 | 0.7 | | 9.0 | 0,1 | 1.7 | 9.0 | X | 9.5 |
| 4-12 | 4.1 | 0.9 | 1.1 | 0.2 | 0.8 | 1.0 | 9,1 | 6.2 | 10.0 | 2.9 | 5.0 | 1.2 | 2.6 | 0 | 4.2 | 1,8 | \bigvee | 51.7 |
| 1-3 | 1.1 | 0.3 | 0.8 | 0.2 | 0.8 | 0.6 | 3.4 | 1,1 | 2.6 | 0.6 | 2.2 | 0.3 | 1.3 | 0.4 | 1.6 | 0,3 | X | 17.5 |
| SPEED MPH DIR. | z | SNS | ž | ENE | , , | ESE | SE | 558 | S | SSW | SW | WSW | * | WHW | MW | NNW | CAUM | 20.3 |

FEDERAL BUILDING - ASHEVILLE, N.C., 28801 DATA FROM NATIONAL CLIMATIC CENTER

23,718

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

| 114 | POSTR | ALL | BOURS (L.S.T.) | | |
|--|-------|-------------|-------------------------|----------|---------------------|
| Conto Doro Is CA Tring 10/13 then Rehmismy 10/11 | | ALL WEATHER | 33°55', 120°07', 1,348' | LOGATION | HEIGHT ABOVE GROUND |
| | 1 | | | | |

| MEAN WIND SPEED | 12.2 | 7.9 | 10.9 | 15.9 | 12.0 | 10.9 | 8.5 | 9.0 | 9.1 | 14.0 | | 10.0 | 6.9 | 7.6 | 19.4 | 22.5 | 16.8 | |
|-----------------------|------|-----|------|------|--------|------|-----|------|-----|------|-----|------|-----|-----|------|------|-----------|-------|
| M. | 6.9 | 1.7 | 2.8 | 3.9 | 9.2 | 4.9 | 4.5 | 3.0 | 3.1 | 5.4 | 1.2 | 1.5 | 1.2 | 1.5 | 11.1 | 45.5 | 0.2 | 0.001 |
| | | | | | | | | | | | | | | | | | \bigvee | |
| | | | | | | | | | | | | | | | | | X | |
| | | | | | | | | | | | | | | | | | X | |
| | | | | | | | | | | | | | | | | | X | |
| | | | | | | | | | | | | | | | | | X | |
| 247 | 0.1 | | 0.1 | 0.1 | 0.0 | | | | | 0,1 | | | | | 0,2 | 0.8 | \bigvee | 1.3 |
| 32-46 | 0.1 | | 0.0 | 0.2 | 0,1 | 0,1 | 0.0 | 0.0 | 0.0 | 0.2 | | | | | 1.8 | 9.3 | \bigvee | 11.8 |
| 13-24 25-31 32-46 | 7.0 | | 0,1 | 0.3 | h.0 | 0.2 | 0.Ì | 0.1 | 0.0 | 0.1 | | 0.0 | | | 1.6 | 8.4 | X | 11.8 |
| 13-24 | 2.3 | 0.2 | 9.0 | | 5.6 | 1.4 | 0.5 | 0.5 | 0.7 | 9.0 | 0.1 | 0.3 | 0.1 | 0.1 | 3.6 | 14.4 | X | 29.6 |
| 4-12 | 3.5 | 1.2 | 1.5 | 1.6 | ω « | 5.9 | 3,1 | 2.0 | 1.9 | 1.1 | 0.8 | 1.1 | 6.0 | 1.2 | 3.6 | 9.8 | X | 38.9 |
| 1-3 | 0.6 | 0.3 | 0.5 | 0.1 | 0.7 | 7.0 | 7.0 | 10.4 | 0.4 | 0.3 | 0.5 | 0.1 | 0.3 | 0.1 | h.0 | 6.0 | \bigvee | 6.4 |
| SPEED MPH DIR. | z | NN | ž | 3N3 | | 252 | 38 | SSE | S | SSW | SW. | WSW | * | WHW | MM | NNN | CALM | 0.2 |

DATA FROM NATIONAL CLIMATIC CENTER FEDERAL BUILDING - ASMEVILLE, N.C., 28801

| ALL | ALL | Beets [L.K.]. |
|-----------------|-------------------------------|---|
| Saugus SCE 1973 | STATES MADE TALES ALL WEATHER | 34°24', 118°32', 1165', 25100 Henry Mayo Drive tocation 45' |

| | MPH | | | | | | | | × | |
|-------------|-----|---|---|---|---|---|---|---|-------|----|
| | - | | | | - | | | | 5.6 | + |
| | NNE | 4 | | | | | | | 3.2 | ╀ |
| | | | | | | | | | 3.5 | +- |
| | | | | | | | | | 9.9 | ⊢ |
| | | | | | | | | | 17.0 | + |
| | ESE | | | | | | | | 7.2 | +- |
| | SE | | | | | | | | 0 | ╀ |
| | SSE | | | | | | | | 2.0 | + |
| | 3 | | | | | | | | 5.5 | ╄ |
| | 85W | | | | | | | | 1.5 | + |
| | 2 | | | | | | | | 3.5 | - |
| | W | | | | | | | | 4.3 | ╀ |
| | | | | | | | | | 15.3 | ╀ |
| | W | | | | | | | | 5.3 | + |
| | | | | | | | | | 4.8 | ╀ |
| сии / 100.1 | NOW | | | | | | | | 4.0 | 1 |
| | | | | | | | | | _ | 1 |
| 100:1 | X | X | X | X | V | X | X | X | | - |
| | | | | | | | | | 100.1 | 1_ |

These data are available on an hourly basis. Note:

August 1940 thru July 1941 9251 35°20', 116°06', ALL WEATHER CLASS (CAA) Silver Lake, CA

HEIGHT ABOVE GROUND

ALL HOURS (LS.T.)

| MEAN WIND SPEED | | | | | | | | | | | | | | | | | | |
|-----------------------|-----|-----|-----|-----|-----|-----|------|-----|------|-----|-----|-----|-----|-----|-----|-----|-----------|-------|
| ak. | 4.1 | 1.5 | 1.9 | 0.3 | 4.2 | 2.8 | 18.1 | 9.9 | 10.9 | 3.6 | 4.4 | 2.1 | 3.5 | 2.5 | 5.3 | 3.8 | 24.3 | 100.0 |
| | | | | | | | | | | | | | | | | | X | |
| | | | | | | | | | | | | | | | | | X | |
| | | | | | | | | | | | | | | | | | \bigvee | |
| | | | | | | | | | | | | | | | | | X | |
| | | | | | | | | | | | | | | | | | X | |
| | | | | | | | | | | | | | | | | | X | |
| | | | | | | | | | | | | | | | | | X | |
| 2 47 | | | | | | | | | | | | | 0.0 | | | | X | 0.0 |
| 16-31 32-47 | 0.0 | 0.0 | | | | | | | 0.0 | | | | 0.1 | 0.1 | | 0.0 | X | 0.2 |
| | 0.8 | 0.7 | 0.0 | L | 0.0 | 0.1 | 0.3 | 0.4 | 0.7 | 7.0 | 0.5 | 0.7 | | 0.8 | 0.4 | 1.0 | X | 8.3 |
| 4-15 | 3.2 | 2.0 | 1.9 | 0.3 | 4.2 | 2.7 | 17.8 | 6.2 | 10.2 | 3.2 | 3.9 | 1.4 | 1.9 | 1.7 | 5.0 | 2.8 | X | 67.1 |
| SPEED MPH DIR. | z | NNE | Z | ENE | | ESE | SE | SSE | S | SSW | SW | WSW | * | WHW | MM | NNN | CALM | 24.3 |

DATA FROM NATIONAL CLIMATIC CENTER FEDERAL BUILDING - ASHEVILLE, N.C., 28801

| ALL MEAN WIND SPEED | ALL MEAN | | | | | | | 48 | 2-47 | 4-15 16-31 32-47 | 1 1 1 | MPH MPH |
|------------------------------|----------|---|-----|---|--|---|--|------------|------|------------------|-------|----------------------|
| | | (| _ | | | | | | - | - | | |
| | 0.0 | | | _ | | | | | | 1.5 | 8.4 | N.X |
| | 0.0 | | | | - | - | - | | | 0 | 0.9 | z |
| WING | и | | | | | | | 84 | 2-47 | 6-31 3 | | SPEED MPH DIA. |
| | | | | | | | | | | | | |
| | | | | | | GROUND | HEIGHT ABOVE GROUND | ĭ | | | l | |
| | | | | | | 0 NO C NO C NO C NO C NO C NO C NO C NO | CHT ABOVI | 1 | | | | |
| ار | AL | | 1 | | 420 371, 123 221, 1,171 M LOGATION HEIGHT ABOVE GROUND | 221, I | , 123° LDCATIO | 12° 37 t | | | | |
| | | | 1 1 | | 171 M | 221, 1 | ALL WEATHER CLASS CLASS (71, 123 ⁰ 22 LOCATION HEIGHT ABOVE GRO | AL 20 37 1 | | | | |

| MEAN WIND SPEED | | | | | | | | | | | | | | | | | | |
|-----------------------|-----|-----|------|-----|-----|-----|-----|-----|-----|-----|------|-----|-----|-----|------|-----|-----------|------|
| × | 6.0 | 6 | 33.3 | 2.7 | 0.0 | 0.5 | 0.3 | 0.7 | 0 | 2 | 24.5 | 2.1 | 0 | 0 | 0.4 | 0.4 | | 6.66 |
| | | | | | | | | | | | | | | | | | \bigvee | |
| | | | | | | | | | | | | | | | | | X | |
| | | | | | | | | | | | | | | | | | X | |
| | | | | | | | | | | | | | | | | | X | |
| | | | | | | | | | | | | | | | | | X | |
| | | | | | | | | | | | | | | | | | X | |
| | | | | | | | | | | | | | | | | | X | |
| 817 | | | | | | | | | | | | | | | | | X | |
| 32-47 | | | | | | | | | 0 | 0 | 0 | 0 | | | | | X | C |
| 4-15 16-31 32-47 | 0 | 1.5 | 7.5 | 0.1 | 0 | 0 | 0 | 0.1 | 7.0 | 1 | 1.6 | 0.1 | 0 | | 0 | 0 | X | 0.0 |
| 4-15 | 6.0 | 8.4 | 0,00 | 5.6 | 9.0 | 0.2 | 0.3 | 9.0 | 5.6 | 0.9 | 22.9 | 5.0 | 2.0 | 0.3 | 7.0 | 0.4 | X | 82.0 |
| SPEED MPH DIR. | z | a X | ž | ENE | . 4 | ESE | SE | SSE | S | SSW | SW | WSW | * | WHW | N.W. | MNW | CALM | 7.8 |

STATION

| ALL Bears ALL Bears (La.7.) | | | | MEAN WIND SPEED | | | | | | | | | | | | | | | | |
|--|---------|-------------|---------------------------|-----------------------|---------------------|-------------|-------|--------|--------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--|---|
| | | | BOUR | | | at. | 200 | | 10 | 7 2 2 2 | 1 - W | 000 | 7.78 | 17.88 | 25.58 | 6.02 | 94.4 | 3.78 | | Ī |
| January 1, 1968 thru December 31, 1970 | | | | | | 50.0- | | | | | | | | | | | | | | |
| | | | ļ | ı | ı | 30.0- 40.0- | | | | | | | | | | | | | | |
| | 24.89 | | | | HEIGHT ABO'E GROUND | 30.0- | | | | | | | | | | | | | | |
| | | | .0 | | | 20.0- | | | | | | | | | | | | | | |
| | | | 9,65 | | | 15.0- | | | | | | | | | | | | | | |
| Janua | | ATHER | 19°53 | Location Feet | | 12.5 | | | | | | | | | | | | | | |
| Slide Mtn., Nevada (Lake Tahoe) | | ALL WEATHER | 39°18.5', 119°53', 9,650' | 7 feet | | 10.0- | | | | | | | | | | | | | | |
| | | | 39018 | | | 7.5- | | | | | | | | | | | | | | _ |
| | HAME | | | | | 7.5 | | | | | | | | | | | | | | |
| | 874710 | | | | | 5.0- | | | | | | | | | | | | | | |
| e Mtn. | Table 9 | 1 | | | | 2.5 | | | | | | | | | | | | | | |
| Slide | | | | | | APS O | 0- 30 | 30- 60 | 06 -09 | 90-120 | 120-150 | 150-180 | 180-210 | 210-240 | 240-270 | 270-300 | 300-330 | 330-360 | | |

DATAFROM Desert Research Institute, University of Nevada, Reno, NV

TOTAL hrs.of OBSEVATION 20,228 Observation Interval

0,49

68

8,38

99.95

*8.38 MPS = 18.7 MPH

| Southeast Farallon Island | June | 1935 | thru | June 1935 thru December 1942 | 1942 | |
|---------------------------|--------|------|------|------------------------------|------|---|
| STATION MANG | | | | YEAAs | | |
| ALL WEATHER | HER | | | | | |
| CLASS | | | | | ı | 2 |
| 37 42', 123 00', 39 | 01,3 | -6 | | | | |
| LOCATION | z | | | | | |
| | | | | | | |
| CHICAR MOCAT FIRE | 0.41.0 | | | | | |

STATEGR

ALL ALL

| MFH. | 1-3 | 4-15 | 4-15 16-31 32-47 | 32-47 | > 47 | | | | | | | × | MEAN WIND SPEED |
|------|-----------|-----------|------------------|-------|------|---|---|---|---|---|---|------|-----------------------|
| z | 0.5 | 1.5 | 0.1 | 0.0 | | | | | | | | 2.1 | 5. |
| WZZ | 0.0 | 0.1 | | | | | | | | | | 0.1 | 5.7 |
| 2 | 0.7 | 2.0 | 0.2 | | | | | | | | | 00 | 6.9 |
| ENE | 0.0 | 0.4 | 0.2 | 0.0 | | | | | | | | 9.0 | 12.0 |
| , 3 | 9.0 | 3.0 | 1.3 | 0.0 | 0.0 | | | | | | | 6.4 | 11.3 |
| ESE | 0.0 | 0.2 | 0.1 | 0.0 | | | | | | | | 0.3 | 13.7 |
| SE | 0.8 | 3.0 | 1.8 | 0.5 | 0.1 | | | | | | | 6.1 | 14.7 |
| 358 | 0.0 | 0.1 | 0.2 | 0.3 | 0.0 | | | | | | | 9.0 | 28.3 |
| S | 0.7 | 3.7 | 1.8 | 0.5 | 0.1 | | | | | | | 6.9 | 14.4 |
| SSW | 0.0 | 0.2 | 0.1 | 0.1 | | | | | | | | 7.0 | 15.5 |
| AS. | 1.2 | 4.4 | 1.2 | 0.2 | 0.0 | | | | | | | 7.0 | 10.2 |
| WSW | 0.0 | 0.2 | 0.1 | | | | | | | | | 0,3 | 13.1 |
| * | 1.4 | 5.6 | 0.7 | 0.0 | 0.0 | | | | | | | 7.7 | 8 |
| WHW | 0.1 | 9.0 | 0.3 | 0.0 | | | | | | | | 6.0 | 12.8 |
| WW | 1 4.7 | 42.1 | 7.4 | 0.3 | | | | | | | | 54.5 | 10.0 |
| NNW | 0.0 | 0.4 | 0,1 | 0.0 | | | | | | | | 0.0 | 10.8 |
| | | | | | | | | | | | | | |
| CALM | \bigvee | \bigvee | X | X | X | X | X | X | X | X | X | 1.4, | 10.2 |
| 4.1 | 10.7 | 4.79 | 15.7 | 0.1 | 0 | | | | | | | 100 | |

DATA FROM NATIONAL CLIMATIC CENTER FEDERAL BUILDING - ASHEVILLE, N.C., 28801

PERCENTAGE FREQUENCY OF WIND (FROM HOURLY OBSERVATIONS) DIRECTION AND SPEED

| Annual | Month | | BOURS (L.S.T.) | |
|------------------------------|--------------|-------------|----------------------|----------|
| January 1941 - December 1945 | 72488 | ALL WEATHER | 370541, 1210151, 261 | LOCATION |
| Stockton | STATION NAME | ALL W | 37°541, 12 | |

HEIGHT ABOVE GROUND

| Knots DIR. | 1-3 | 4-12 | 13-24 | 25-31 | 4-12 13-24 25-31 32-46 | Z 47 | | | | | | × | MEAN WIND SPEED |
|---------------|------|------|-------|-------|------------------------|-----------|---|---|---|---|---|-------|-----------------------|
| z | 1.3 | 3.1 | 0.3 | | | | | | | | | 4.8 | 5.9 |
| ZXZ | C | 0.0 | | | | | | | | | | 1.4 | 4.9 |
| ž | 0.7 | - | | | | | | | | | | 1.9 | 4.4 |
| a Z | 0.4 | 0.5 | | | | | | | | | | 0.9 | 4.1 |
| | 1.1 | 6.1 | Γ.0 | | | | | | | | | 3.0 | 5.0 |
| ESE | 0.5 | 2.1 | 0.4 | | | | | | | | # | 3.1 | 7.6 |
| SE | 1.1 | 7.7 | 1.0 | | | | | | | | | 9.9 | 8 |
| SSE | 9.0 | œ | 7.0 | | | | | | | | | 2.9 | 2 |
| s | 80 | | 0.1 | | | | | | | | | 2.2 | 5.3 |
| SSW | 7.0 | 9.0 | 0.1 | | | | | | | | | 0 | 5.4 |
| S.W | 0.0 | 2.1 | 4.0 | | | | | | | | | 3.4 | 7.0 |
| WSW | 0.5 | 0.4 | 1.8 | 0.1 | | | | | | | | 6.4 | 10.1 |
| > | 000 | 13.3 | 2.7 | 0.1 | | | | | | | | 18.8 | 8 |
| WHW | 1.4 | 10.4 | 1.4 | | | | | | | | | 13.2 | 7.9 |
| ¥ | 3 | 10.9 | 2.1 | 0.1 | | | | | | | | 15.5 | 8.1 |
| NNN | 0 | 3.1 | 6.0 | 0.1 | | | | | | | | 5.0 | 8.7 |
| | | | | | | | | | | | | | |
| CALM | X | X | X | X | X | \bigvee | X | X | X | X | X | 6.6 | |
| 0 | 16.0 | 61.6 | 11.7 | 9.0 | | | | | | | | 100.0 | 6.9 |

DATA FROM NATIONAL CLIMATIC CENTER FEDERAL BUILDING - ASHEVILLE, N.C., 28801

47,320

| | ,31/60 ALL | 72.480 Desite | ALL | on Street | | | 7.55 |
|-----|-------------------|---------------|-------------|--|----------|---------------------|------|
| | 1/1/55 - 12/31/60 | STATION MARK | ALL WEATHER | 34°13', 118°22', 1000', 11805 Sheldon Street | LOCATION | HEIGHT ABOVE GROUND | |
| | Sun Valley | | | (*) | | | |
| SFV | M††O | 87A7100 | | | | | |

| MFF | | | | | | | | | | | | × | MEAN WIND SPEED |
|--------|----------|--------|--------------------|---------|-----------|-----------|--|------|-----------|------------------------------|----------|--------|-----------------------|
| 2 | | | | | | | | | | | | 2.6 | 6.2 |
| WXX | | | | | | | | | | | | 16.1 | 5.4 |
| Z | | | | | | | | | | | | 4.2 | 4.8 |
| Z | | | | | | | | | | | | 1.0 | 4.1 |
| | | | | | | | | | | | | 6.0 | 3.4 |
| 151 | | | | | | | | | | | | 3.4 | 4.2 |
| SE | | | | | | | | | | | | 13.5 | 5.6 |
| \$58 | | | | | | | | | | | | 20.2 | 6.4 |
| 50 | | | | | | | | | | | | 0.6 | 0.9 |
| SSW | | | | | | | | | | | | 6.3 | 4.4 |
| NS. | | | | | | | | | | | | 2.8 | 3.7 |
| WSW | | | | | | | | | | | | 2.4 | 7. 77 |
| * | | | | | | | | | | | | 1.9 | 5.1 |
| WHW | | | | | | | | | | | | 1.9 | 6.0 |
| W.W. | | | | | | | | | | | | 2.7 | 7.3 |
| MNN | | | | | | | | | | | | 4.1 | 6.3 |
| | | | | | | | | | | | | | |
| CALM | X | X | X | X | \bigvee | \bigvee | X | X | X | X | X | | |
| | | | | | | | | | | | | 1001 | 5.6 |
| Data f | from Sou | th Cos | ast Air | r Quali | ty Man | agemen | South Coast Air Quality Management District 9420 Telstar Avenue | rict | TOTAL NUM | TOTAL NUMBER OF OBSERVATIONS | RYATIONS | 34,400 | 00 |
| | EJ | Monte, | El Monte, CA 91731 | 1731 | | | | | | | l | | |
| | | | | | | | | | | | | | |

Note: These data are available on an hourly basis.

HOURS (L.S.T.) ALL ALL HEIGHT ABOVE GROUND SUNNYVALE, CAL/MOFFETT FLD NWSED 45-72 ALL WEATHER LOCATION CLASS 37025', 122003', 40' 13

23244 atation

| 1.3 4.6 7.10 11.16 17.21 22.27 23.33 34.40 41.47 48.55 ≥56 × | MEAN WIND SPEED | 6.8 | 5.3 | 4.0 | 3.2 | 3.3 | 4.9 | 9.9 | 6.1 | 4.5 | 3.4 | 3.3 | 4.6 | 4.9 | 9 | 7.4 | 9.1 | | 5.3 |
|--|-------------------------|------|--------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|-----------|-------|
| 1.3 4.6 7.10 11.16 17.21 22.27 23.33 34.40 41.47 48.55 2.3 3.4 3.0 11.4 1.2 | * | 10.3 | 3.5 | 1.9 | 8. | 1.4 | 1.6 | | 7.4 | 4.3 | 1.3 | 2.4 | 2.3 | 6.7 | 6.3 | 9.8 | 16.1 | 16.8 | 100.0 |
| 1.3 4.6 7.10 11.16 17.21 22.27 23.33 34.40 41.47 2.3 3.4 3.0 11.4 .2 .0 .0 .0 .0 1.3 1.3 2.4 .2 .0 .0 .0 1.3 1.3 2.4 .2 .0 .0 .0 1.5 .2 .2 .0 .0 .0 .0 2.4 2.0 1.4 1.0 .3 .1 .0 .0 2.7 2.2 1.3 .8 .3 .1 .0 .0 2.9 2.1 2 .1 .0 .0 .0 1.7 3.3 5.6 4.6 .8 .0 .0 2.0 2.1 1.4 .7 .1 .0 .0 2.1 2.2 2.3 1.4 .7 .1 .0 .0 2.2 2.3 1.4 .7 .1 .0 .0 2.3 2.4 3.3 5.6 4.6 .8 .0 .0 2.5 2.7 2.7 2.7 2.7 2.7 2.7 .0 .0 2.6 2.7 2.7 3.1 1.5 2.2 .2 .0 .0 2.7 2.8 2.9 2.1 1.4 .7 .1 .0 .0 2.8 2.9 2.1 1.4 .7 .1 .0 .0 2.9 2.7 3.3 5.6 4.6 .8 .0 .0 .0 2.0 2.1 1.4 .7 .1 .1 .0 .0 2.0 2.1 1.4 .7 .1 .0 .0 .0 2.0 2.1 1.4 .7 .1 .0 .0 .0 2.0 2.1 1.4 .7 .1 .0 .0 .0 2.0 2.1 1.4 .7 .1 .0 .0 .0 2.0 2.1 1.4 .7 .1 .0 .0 .0 2.0 2.1 1.4 .7 .1 .0 .0 .0 2.0 2.1 1.4 .7 .1 .0 .0 .0 2.0 2.1 1.4 .7 .1 .0 .0 .0 2.0 2.1 1.4 .7 .1 .0 .0 .0 2.0 2.1 1.4 .7 .1 .0 .0 .0 .0 2.0 2.1 1.4 .7 .1 .0 .0 .0 .0 2.0 2.1 1.4 .7 .1 .0 .0 .0 .0 .0 2.0 2.1 1.4 .7 .1 .0 .0 .0 .0 .0 .0 2.0 2.1 1.4 .7 .1 .0 .0 .0 .0 .0 .0 .0 | % A1 | | | | | | | | | | | | | | | | | X | |
| 1.3 | 48 - 55 | | | | | | | | | | | | | | | | | X | |
| 1.3 4.6 7.10 11.16 17.21 22.27 23.33 34 1.3 1.3 1.4 1.2 1.2 2.27 23.33 34 1.3 1.3 1.4 1.0 .0 .0 1.3 1.4 1.0 .0 .0 1.4 2.0 1.4 1.0 .3 .1 .0 2.7 2.2 1.3 .8 .3 .1 .0 2.9 2.2 1.3 .1 .0 .0 1.7 5.5 2.2 1.3 .1 .0 .0 2.9 2.1 1.4 .7 .1 .0 .0 2.0 2.1 1.4 .7 .1 .0 .0 2.0 2.1 1.4 .7 .1 .0 .0 2.0 2.1 1.4 .7 .1 .1 2.0 2.1 1.4 .7 .1 .1 2.0 2.1 1.4 .7 .1 .1 2.0 2.1 1.4 .7 .1 .1 2.0 2.1 1.4 .7 .1 .1 2.0 2.1 1.4 .7 .1 .1 2.0 2.1 1.4 .7 .1 .1 2.0 2.1 1.4 .7 .1 .1 2.0 2.1 1.4 .7 .1 .1 2.0 2.1 1.4 .7 .1 .1 2.0 2.1 1.4 .7 .1 .1 2.0 2.1 1.4 .7 .1 .1 2.0 2.1 1.4 .7 .1 .1 2.0 2.1 1.4 .7 .1 .1 2.0 2.1 1.4 .7 .1 .1 2.0 2.1 1.4 .7 .1 .1 2.0 2.1 1.4 .7 .1 .1 2.0 2.1 1.4 .7 .1 .1 2.0 2.1 1.4 .7 .1 2.0 2.1 1.4 .7 .1 2.0 2.1 1.4 .7 .1 2.0 2.1 1.4 .7 .1 2.0 2.1 1.4 .7 .1 2.0 2.1 1.4 .7 .1 2.0 2.1 1.4 .7 .1 2.0 2.1 1.4 .7 .1 2.0 2.1 1.4 .7 .1 2.0 2.1 1.4 .7 .1 2.0 2.1 1.4 .7 .1 2.0 2.1 1.4 .7 .1 2.0 2.1 1.4 .7 .1 2.0 2.1 1.4 .7 .1 2.0 2.1 1.4 .7 .1 2.0 2.1 2.1 2.1 2.1 2.1 2.0 2.1 2.1 2.1 2.1 2.1 2.1 2.0 2.1 2.1 2.1 2.1 2.1 2.1 2.0 2.1 2.1 2.1 2.1 2.1 2.1 2.1 2.0 2.1 2.1 2.1 2.1 2.1 2.1 2.1 2.1 2.1 2.1 2.0 2.1 | 41 - 47 | 0. | | | | | 0. | | | | | | | | | | | \bigvee | 0. |
| 1.3 | 34 - 40 | 0. | | | | | 0. | 0. | | 0. | | | 0. | | | | | X | 0. |
| 1.3 4.6 7.10 11.16 17.21 22 23 3.4 3.0 11.4 17.21 22 1.3 1.3 3.4 3.0 1.4 1.0 | 28 - 33 | 0. | | | | | | 0. | 0. | 0. | 0. | | 0. | | 0. | 0. | 0. | \bigvee | 0. |
| 1.3 4.6 7.10 11.16 17. 2.3 3.4 3.0 11.4 1.3 1.3 2.6 2.2 1.5 2.2 2.0 2.0 2.7 2.0 1.4 1.0 2.7 2.2 1.3 2.8 2.3 1.2 2.5 2.1 1.7 5 2.2 1.3 2.9 2.1 1.4 2.0 2.0 2.1 1.4 2.0 2.0 2.1 1.4 2.0 2.0 2.1 1.4 2.1 2.0 2.1 1.4 2.1 2.0 2.1 1.4 2.1 2.0 2.1 3.3 5.6 4.6 2.0 2.1 1.4 2.1 2.0 2.1 2.1 2.1 2.0 2.1 2.1 2.1 3. | 22 - 27 | 0. | 0. | 0. | | | 0. | .1 | .1 | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | X | .2 |
| 1.3 4.6 7.10 11. 2.3 3.4 3.0 1 1.3 1.3 1.3 .6 1.0 .2 .2 2.4 2.0 1.4 1 2.7 2.2 1.3 1.7 2.2 1.3 1.7 2.2 1.3 1.7 2.3 1.2 2.9 2.2 1.3 2.0 2.1 1.4 | 17 - 21 | .2 | 0. | 0. | 0. | 0. | 0. | .3 | | .1 | 0. | 0. | 0. | 0. | .1 | .3 | ω. | X | 2.2 |
| 2.3 3.4 3 3.4 3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1 | 11 - 16 | 1.4 | . 2 | .1 | 0. | 0. | .1 | 1.0 | 8. | .2 | 0. | 0. | .1 | 7. | .7 | 1.8 | 4.6 | X | 11.5 |
| 1 | 7 - 10 | 3.0 | 9. | .2 | 0, | .1 | .2 | 1.4 | 1.3 | .5 | .1 | .2 | | 1.1 | 1.4 | 3.0 | 5.6 | X | 19.1 |
| 200 1 1 2 2 2 2 1 1 2 2 2 2 2 1 1 2 2 2 2 | 4.6 | 3.4 | 1.3 | 9. | .2 | . 4 | .5 | 2.0 | 2.2 | 1.2 | | .5 | 9. | 2.2 | 2.1 | 2.7 | 3,3 | X | 23.7 |
| | 1.3 | 2.3 | 1.3 | 1,0 | 5. | 6. | . 7 | 2.4 | 2,7 | 2.3 | 6. | 1.7 | 1.2 | 2.9 | 2.0 | 2.0 | 1.7 | X | 26.5 |
| CALL | SPEED (KNTS) DIR. | z | N.N.S. | ž | ENE | | ESE | SE | SSE | S | SSW | SW | WSW | * | WWW | WW | NNW | CALM | 16.8 |

DATA FROM NATIONAL CLIMATIC CENTER FEDERAL BUILDING - ASHEVILLE, N.C., 28801

238814

TOTAL NUMBER OF OBSERVATIONS

-240-

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

| STATION MAMA | YEARS |
|---------------------------|----------|
| ALL WEATHER | |
| CLASS | |
| 400 231, 1200 331, 4,2201 | , 4,220' |
| LOCATION | |

| | | | | | | | | | | | | | 1 |
|----------------------|-----------|------|-------|-----------|-----------|-----------|---|---|---|---|---|------|--------|
| SPEED MPH DIR. | 0-3 | 4-15 | 16-31 | | | | | | | | | | ył. |
| z | 3.3 | 5.5 | 0.1 | | | | | | | | | 80 | 8.9 |
| NNE | | | | | | | | | | | | | |
| ž | 1.6 | 1.4 | | | | | | | | | | 3.0 | 0 |
| ENE | | | | | | | | | | | | | |
| , , | 3.9 | 3.7 | 0 | | | | | | | | | 7.6 | 0 |
| ESE | | | | | | | | | | | | | |
| SE | 4.2 | 5,5 | 0.1 | | | | | | | | | 6.7 | |
| 358 | - | | | | | | | | | | | | |
| S | 5,1 | 7.7 | 1,4 | | | | | | | | | 12.9 | \sim |
| SSW | | | | | | | | | | | | | - 1 |
| SW | 3.1 | 16.3 | 5.6 | | | | | | | | | 20.8 | m1 |
| WSW | | | | | | | | | | | | | |
| * | 3.3 | 18.6 | 0.2 | | | | | | | | | 24.5 | |
| WHW | | | | | | | | | | | | | |
| WW | 3.0 | 6,3 | | | | | | | | | | 9.5 | |
| MNN | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| CALM | X | X | X | \bigvee | \bigvee | \bigvee | X | X | X | X | X | 13.1 | |
| ر د | 07 5 65 0 | 65.0 | 1/ 1/ | | | | | | | | | 1000 | ١. |

DATA FROM NATIONAL CLIMATIC CENTER FEDERAL BUILDING - ASHEVILLE, N.C., 28801

2,865

TOTAL NUMBER OF OBSERVATIONS

-241-

| ALL | ALL BOURS (L. | | |
|---|--------------------|------------------------|---------------------|
| Taft, CA Gardner Field AAF Dec 1941 thru Feb 1945 | ALL WEATHER CLASS | 35° 06', 119° 19', 436 | HEIGHT ABOVE GROUND |

STATION

| MEAN WIND SPEED | 6.5 | 6.1 | 5.8 | 5.1 | 4.7 | 6.0 | 3.9 | 3.6 | 3.5 | 3.9 | 5.2 | 6.5 | 4.3 | 4.6 | 5.1 | 5.2 | 5.2 | |
|-----------------------|------|------|-----|-----|-----|-----|-----|-----|-----|-----|------|------|-----|-----|-----|-----|-----------|---------------|
| × | 12.9 | 10.0 | 7.1 | 2.8 | 3.4 | 2.4 | 1.9 | 1.7 | 2.4 | 7.2 | 17.1 | 15,3 | 2.5 | 2.1 | 1.9 | 4,4 | 4.9 | 100.0 |
| | | | | | | | | | | | | | | | | | \bigvee | |
| | | | | | | | | | | | | | | | | | X | |
| | | | | | | | | | | | | | | | | | M | |
| | | | | | | | | | | | | | | | | | X | |
| | | | | | | | | | | | | | | | | | X | |
| 247 | | | | | | | | | | | | | | | | | X | |
| 32-46 | 0.0 | | | | 0.0 | 0.1 | 0.0 | | 0.0 | | | | | | | 0.0 | X | 0.1 |
| 13-24 25-31 32-46 ≥47 | | 0.0 | 0.0 | | 0.0 | 0.1 | 0.0 | | 0.0 | 0.0 | 0.0 | 0.0 | | 0.0 | 0.0 | | X | 0.1 |
| | 0.7 | 0.2 | 0.1 | 0.0 | 0.0 | 0.2 | 0.0 | 0.0 | 0.0 | 0.1 | 0.4 | 1.3 | 0.1 | 0.1 | 0.1 | 0.1 | X | 3.5 |
| 4-12 | 9.5 | 7.8 | 5,3 | 1.8 | 2.0 | 1.1 | 8.0 | 0.7 | 1.0 | 3.6 | 11.7 | 10.8 | 1.2 | 1.1 | 1.0 | 2.6 | X | 62.2 |
| 1-3 | 2.7 | 2.0 | 1.7 | 6.0 | 1.3 | 1.0 | 1.1 | 1.0 | 1.4 | 3.5 | 4.9 | 3.1 | 1.2 | 6.0 | 8.0 | 1.6 | X | 4.9 29.2 62.2 |
| SPEED MPH DIR. | z | N.N. | ž | ENE | , 3 | ESE | SE | SSE | s | SSW | »S | wsw | * | WHW | WW | MNN | CALM | 4.9 |

28,266

| JCA AAF Nov 1944 thru Dec 1944 ALL WEATHER CLASS 35° 08', 118° 27', 3,970' |
|--|
| |

| MEAN WIND SPEED | 3.2 | 4.3 | 4.9 | 10.5 | 7.5 | 9.0 | 8.1 | 7.6 | 4.7 | 7.0 | 2.6 | 7.8 | 7.4 | 9.6 | 10.1 | 8.3 | 8.4 | |
|------------------------|-----|-------|-----|------|-----|-----|------|-----|-----|-----|-----|-----|------|------|------|-----|-----------|-------|
| × | 0.9 | 0.1 | 1.3 | 1.5 | 7.6 | 8.3 | 12.9 | 0.8 | 0.9 | 0.2 | 2.4 | 3.4 | 13.8 | 13.7 | 27.6 | 1.2 | 3.4 | 100.0 |
| | | | | | | | | | | | | | | | | | \bigvee | |
| | | | | | | | | | | | | | | | | | X | |
| | | | | | | | | | | | | | | | | | M | |
| | | | | | | | | | | | | | | | | | M | |
| | | | | | | | | | | | | | | | | | X | |
| 2 47 | | | | | | | | | | | | | | | | | X | |
| 32-46 | | | | 0.0 | 0.0 | | 0.0 | | | | | | | | 0.0 | | \bigvee | 0.1 |
| 13-24 25-31 32-46 ≥ 47 | | | | 0.0 | 0.1 | 0.0 | 0.0 | | 0.0 | | 0.0 | | 0.0 | 0.1 | 0.2 | | \bigvee | 0.5 |
| 13-24 | | | 0.1 | 0.3 | 0.8 | 1.6 | 2.6 | 0.1 | 0.0 | 0.0 | 0.1 | 0.3 | 1.4 | 2.9 | 7.4 | 0.2 | X | 17.8 |
| 4-12 | 0.3 | 0.0 | 0.5 | 1.0 | 5.0 | 5.9 | 7.8 | 0.5 | 0.4 | 0.1 | 1.4 | 2.7 | 10.5 | 10.0 | 18.0 | 6.0 | X | 65.1 |
| 1-3 | 0.7 | 0.0 | 0.7 | 0.2 | 1.7 | 0.7 | 2.5 | 0.2 | 0.5 | 0.0 | 0.8 | 0.3 | 1.9 | 0.7 | 2.0 | 0.2 | X | 13.1 |
| SPEED MPH DIR. | z | m Z Z | ž | 3NE | | ESE | SE | SSE | 87 | SSW | AS. | WSW | * | WHW | N.Y. | NNW | CAUA | 3.4 |

DATA FROM NATIONAL CLIMATIC CENTER FEDERAL BUILDING - ASHEVILLE, N.C., 28801

18,706

TOTAL NUMBER OF OBSERVATIONS

-243-

ALL BOOMS (LAT.) 排 Tunas Avenue 5/19/55 - 6/27/60 Las S838 E. HEIGHT ABOVE GROUND ALL WEATHER 401 400 1180031, STATION MAMS 340071, Temple City 050W

| - | | | | | | | | | X | |
|---|--|--|--|--|--|--|--|--|---|--|
| | | | | | | | | | X | |

TOTAL NUMBER OF OBSERVATIONS Data from South Coast Air Quality Management District 9420 Telstar Avenue El Monte, CA 91731 These data are available on an hourly basis. Note:

26,780

| ALL | ALL | BPG &A LL.F., | |
|-----------------|--------------------------|-------------------------------------|---------------|
| Terminal Island | STATION MADE ALL WEATHER | 33°46', 118°13', 10', Pier E 50' | MEIGHT ABOOKD |
| TIH | ST-718 | | |

| 11.2 12.6 12.6 12.6 12.6 10.2 25.7 25.7 from South Coast Air Quality Management District 100.0 | from South Coast Air Quality Management District Sulf Ports Avenue Bl Monte, CA 91731 | MPH PIR. | | | | | | | | | | | | × | WIND |
|--|--|-------------|---|------|-------|---------------|--------|--------|---------|------|-----------|-------------|-----------|--------|------|
| 8.8 12.6 12.6 10.2 25.7 27.7 from South Coast Air Quality Management District 100.0 | # 8.8 # 4.6 # 10.2 # 10.2 # 10.2 # 10.2 # 10.2 # 10.2 # 10.2 # 10.0 | z | | T | | | | | L | | | | | 11.2 | 5.4 |
| 8.8 8.8 1.6 1.6 10.2 10.2 10.2 10.0 10.0 10.0 10.0 10.0 | # 8.8 # 4.6 # 10.2 # 10.2 # 10.2 # 10.2 # 10.2 # 10.2 # 10.2 # 10.0 | N. | | | | | | | | | | | | | |
| 12.6 12.6 10.2 25.7 25.7 10.0 10.0 10.0 10.0 10.0 10.0 | from South Coast Air Quality Management District From South Coast Air Quality Management District Management Distri | Z | | | | | | | | | | | | 8.8 | 5.4 |
| 12.6 10.2 25.7 25.7 10.0 10.0 10.0 | from South Coast Air Quality Management District 10.0 10.2 25.7 10.0 | ENE | | | | | | | | | | | | | |
| 12.6 10.2 10.2 25.7 25.7 25.7 10.0 10.0 10.0 10.0 10.0 10.0 10.0 | 12.6 10.2 10.3 | | | | | | | | | | | | | 9.4 | 5.2 |
| 12.b 10.2 10.2 10.2 10.0 10.0 10.0 10.0 10.0 | 12.6 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.3 | 155 | | | | | | | | | | | | | |
| from South Coast Air Quality Management District 100.0 | from South Coast Air Quality Management District 10.2 25.7 100.0 from South Coast Air Quality Management District 100.0 100.0 | SE | | | | | | | | | | | | 12.6 | 5.5 |
| 10.2 25.7 10.2 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 | from South Coast Air Quality Management District 10.2 25.7 10.0 100.0 From South Coast Air Quality Management District 100.0 100.0 | SSE | - | | | | | | | | | | | | |
| from South Coast Air Quality Management District Tota Numse of ONSERVATIONS 164, OC | from South Coast Air Quality Management District Torm Number of Order Avenue El Monte, CA 91731 | S | | | | | | | | | | | | 10.2 | 6.3 |
| from South Coast Air Quality Management District 101A Numse of OSSENTANCE 164, QC | from South Coast Air Quality Management District 100.0 From South Coast Avenue El Monte, CA 91731 | SSW | | | | | | | | | | | | | |
| from South Coast Air Quality Management District 100.0 | from South Coast Air Quality Management District TOTA NUMBER CO OSSERVATIONS 164,90 | SW | | | | | | | | | | | | 25.7 | 8.7 |
| from South Coast Air Quality Management District | from South Coast Air Quality Management District 100.0 Flow South Coast Air Quality Management District 100.0 100.0 104.90 | WSW | | | | | | | | | | | | | |
| from South Coast Air Quality Management District 101.00 104.00 | from South Coast Air Quality Management District Total Number of Original 164,90 El Monte, CA 91731 | * | | | | | | | | | | | | 9.4 | 9.7 |
| from South Coast Air Quality Management District 101A Numse of OSSENATIONS 164, QC | from South Coast Air Quality Management District 100.0 From South Coast Avenue El Monte, CA 91731 | WWW | | | | | | | | | | | | | |
| from South Coast Air Quality Management District | from South Coast Air Quality Management District TOTA NUMBER OF OSSERVATIONS 164.90 BI Monte, CA 91731 | MW | | | | | | | | | | | | 22 • 3 | 7.9 |
| from South Coast Air Quality Management District rora Number of Observations 164, of | from South Coast Air Quality Management District TOTAL NUMBER OF OBSERVATIONS 164.90 Bl Monte, CA 91731 | NNW | | | | | | | | | | | | | |
| from South Coast Air Quality Management District 100.00 | from South Coast Air Quality Management District 100.0 100.0 100.0 100.0 | | | | | | | | | | | | | | |
| from South Coast Air Quality Management District rotal Number of Observations 164, or | from South Coast Air Quality Management District 100.00 420 Telstar Avenue El Monte, CA 91731 | CALM | X | V | X | X | X | X | X | X | \bigvee | X | \bigvee | 1 | |
| from South Coast Air Quality Management District TOTA NUMBER OF ONSERVATIONS 9420 Telstar Avenue | from South Coast Air Quality Management District TOTA NUMBER OF OBSERVATIONS 9420 Telstar Avenue El Monte, CA 91731 | | | | | | | | | | | | | 100.0 | 6.9 |
| | | | | Coas | t Air | Quali enue | ty Mar | agemer | nt Dist | rict | TOTAL NUM | LIER OF ORS | ERVATIONS | 164 | 901 |

| ALL | ALL | ROURS (L.B.Y.) | |
|------------------------|--------------------------|---|---------------------|
| A PG&E Nov 1972 thru O | STATION MANS ALL WEATHER | 38 ⁰ 501, 122 ³ 371 | HEIGHT ABOVE GROUND |

BYATION

| MEAN WIND SPEED | 12.3 | 13.7 | 13.5 | 10.9 | 7.6 | 7.2 | 10.1 | 15.7 | 12.5 | 13.1 | 9.2 | 6.0 | 7.5 | 7.1 | 8,3 | 11.1 | 11.4 | |
|-----------------------|------|------|------|------|-----|-----|------|------|------|------|------|-----|-----|-----|-----|------|-----------|-------|
| × | 6.6 | 20.3 | 8.0 | 1.6 | 0.5 | 0.5 | 1.5 | 2.6 | 6.5 | 10.8 | 19.5 | 3.1 | 3.2 | 2.2 | 4.3 | 9.6 | 0.0 | 100.0 |
| | | | | | | | | | | | | | | | | | X | |
| | | | | | | | | | | | | | | | | | X | |
| | | | | | | | | | | | | | | | | | X | |
| > 65 | | 0.0 | | | | | | | | | | | | | | | X | 0.0 |
| 51-65 | 0.0 | 0.1 | 0.0 | | | | | | | | | | | | | | X | 0.1 |
| 25-50 | 0.4 | 1.8 | 0.7 | 0.1 | 0.0 | | 0.0 | 0.5 | 0.8 | 1.4 | 0.5 | 0.0 | 0.1 | 0.0 | 0.0 | 0.1 | X | 6.4 |
| 19-24 | 1.0 | 1.8 | 0.9 | 0.1 | | | 0.1 | 0.4 | 0.7 | 1.0 | 0.5 | 0.0 | 0.1 | 0.0 | 0.1 | 0.5 | X | 7.3 |
| 13-18 | 3.0 | 5.5 | 1.9 | 0.3 | 0.0 | 0.1 | 0.3 | 0.7 | 1.0 | 2.2 | 1.7 | 0.1 | 0.2 | 0.2 | 0.7 | 1.3 | X | 19.2 |
| 8-12 | 2.8 | 7.2 | 2.9 | 0.7 | 0.2 | 0.1 | 9.0 | 0.5 | 1.7 | 3.0 | 9.2 | 9.0 | 9.0 | 0.4 | 1.3 | 1.7 | X | 33.7 |
| 4-7 | 2.2 | 3.4 | 1.3 | 0.4 | 0.2 | 0.2 | 0.3 | 0.3 | 1.8 | 2.6 | 6.5 | 1.9 | 1.6 | 1.1 | 1.7 | 1.6 | X | 27.3 |
| 0-3 | 0.4 | 0.4 | 0.3 | 0.1 | 0.1 | 0.1 | 0.2 | 0.2 | 0.5 | 0.7 | 1.0 | 0.5 | 9.0 | 0.3 | 0.4 | 0.3 | \bigvee | 6.0 |
| SPEED MPH DIR. | z | N.K. | N. | ENE | | ESE | SE | SSE | S | SSW | SW | WSW | W | WHW | WM | MNM | CALIA | 0.0 |
| 24 | L | L | | | | L | | | | | | | | | | | | |

13,844

| ALL WEA CLSS 116° 10', -115° | Jan 1957 thru Dec 1961 | | | |
|----------------------------------|------------------------|-------------|-------------------------|--|
| Thermal FAA | 44.6 | ALL WEATHER | 33°38', 116° 10', -115' | |

| MEAN WIND SPEED | | | | | | | | | | | | | | | | | | |
|-----------------------|------|-----|-----|-----|-----|-----|-----|--------|-----|-----|-----|-----|-----|-----|------|------|-----------|------------|
| × | 13.6 | 2.1 | 1.1 | 0.3 | 0.4 | 0.9 | 7.2 | 6.6 | 5.8 | 1,1 | 1.3 | 0.8 | 1.5 | 2.8 | 13.7 | 25.7 | 11.8 | 100.0 |
| | | | | | | | | par et | | | | | | | | | X | L'ORLT BLA |
| | | | | | | | | | | | | | | | | | X | |
| | | | | | | | | | | | | | | | | | X | |
| | | | | | | | | | | | | | | | | | X | |
| | | | | | | | | | | | | | | | | | X | |
| | | | | | | | | | | | | | | | | | X | |
| | | | | | | | | | | | | | | | | | X | |
| 16-25 /7-25 | 0.0 | | | | | | 0.0 | 0.0 | | | | 0.0 | | 0.0 | 0.0 | 0.1 | X | 0.1 |
| | 0.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.4 | 0.7 | 0.1 | 0.0 | 0.0 | 0.0 | 0.1 | 0.2 | 1.2 | 4.3 | \bigvee | 7.6 |
| 4-15 | 13.0 | 2.0 | 1.1 | 0.3 | 0.4 | 0.8 | 6.7 | 9.1 | 5.7 | 1.0 | 1.2 | 0.8 | 1.4 | 2.5 | 12.4 | 21.3 | M | 79.5 |
| 1-3 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.0 | 0.1 | 0.0 | 0.1 | 0.0 | 0.1 | 0.1 | 0.1 | 0.1 | \bigvee | 1.0 |
| (KNTS) | z | NNE | Z. | ENE | . 3 | ESE | SE | SSE | s | SSW | SW | WSW | * | WHW | WW | NNW | CAUM | 11.8 |

DATA FROM NATIONAL CLIMATIC CENTER FEDERAL BUILDING – ASMEVILLE, N.C., 28801

43,823

| ALL | ALL | HOURS ILET. | |
|--|-------------|---|----------|
| SCC 12/31/70 1/1/56 - 12/31/70 1/1/56 - 12/31/70 1/1/56 12/31/70 1/1/56 12/31/70 1/1/56 1/1/5 | ALL WEATHER | 33 ^o 53', 118 ^o 18', 10', 19821 S. Figeroa Street | LOCATION |
| ŭ O | | | |

HEIGHT ABOVE GROUND

| MPH | z | NNE | Z | Z | - 1 | ESE | SE | \$5E | 2 | SSW | NS. | WSW | * | WIW | N.W. | MNW | | COUNT | | Data from South |
|-------|-----|-----|-----|-----|-----|-----|-----|------|-----|-----|-----|-----|------|-----|------|-----|---|-------------------|------|---|
| | | | | | | | | | | | | | | | | | | X | | South Coast Air Quality Management District |
| | | | | | _ | | | | | | | | | • | | | | X | | r Qualit |
| | | | | | | | | | | | | | | | | | - | X | - | y Manag |
| | H | | | | | | | | | | | | | | | | | X | | gement |
| | | | | | | | | | | | | | | | | | | $\langle \rangle$ | | Distri |
| | | | | | | | | | | | | | | | | | | \bigvee | | |
| | | | | | | | | | | | | | | | | | | \bigvee | | 100000000000000000000000000000000000000 |
| | | | | | | | | | | | | | | | | | | M | | STATE OF CHANGE |
| ¥ | 9.8 | 1.5 | 8.7 | 1.0 | 9.7 | 1.0 | 7.6 | 1.0 | 3.0 | .5 | 8.1 | 3.1 | 31.1 | 1.9 | 11.8 | 1.3 | | | 99.9 | |
| SPEED | | | | 2.7 | 2 | 3.4 | | 4.7 | 3.8 | 1 | | | 9.0 | | | | | | 4.4 | 0)1 |

-248-

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED

| (FROM HOURLY OBSERVATIONS) | LIF/FAIRFIELD 43-72 ALL | ALL WEATHER ALL | 380 16', 1210 56', 59' |
|----------------------------|----------------------------|-----------------|------------------------|
| (FR | TRAVIS AFB CALIF/FAIRFIELD | | 380 16', 1210 13' |

23202

| | _ | | | | | _ | _ | | | _ | - | | | | _ | _ | _ | | _ |
|-------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|-----|-----|-----|------|---|-----------|----------------|
| MEAN WIND SPEED | 111 | В | 6 2 | 5.4 | 4.7 | 5.2 | 9 2 | 9 | 7 9 | 101 | 13.8 | 13.4 | 9 5 | | 5.8 | 11.4 | | | 10.3 |
| × | 7.5 | 4.5 | 2.6 | 1.4 | 1.4 | æ | 1.6 | 1.6 | 2 7 | 4.8 | 28.6 | 23.0 | 4.6 | 8 | 6 | 2.1 | | 11.0 | 100.0 |
| % Al | | | | | | | | | | | | | | | | | | X | |
| 48 - 55 | . 0 | 0 | | | | | | q | | | d | | | | | | | \bigvee | 0 |
| 41 - 47 | 0 | 0 | | | | | C | | | | | d | | | d | 0 | | X | 0 |
| 34 - 40 | 0 | O | | | | О | q | Q | d | O | d | d | O | | | 0. | | X | 1 |
| 28 - 33 | . 2 | 0 | О | | | | O | O | a | - | 8 | | 0 | | C | | | X | 1.5 |
| 22 - 27 | 5 | | О | | | 0 | - | | - | 3 | 3.0 | 1.7 | - | O | d | . 2 | | X | 6.1 |
| 17 - 21 | 6 | | d | C | С | 0 | | - | - | С | 5.8 | 4.3 | 4 | С | C | . 3 | | X | 12.9 |
| 11 . 16 | 1.6 | . 7 | 2 | 0 | 0 | 0 | 3 | 3 | 4 | 1.0 | 8.7 | 8.6 | 1.1 | С | | 7 | | X | 23.5 |
| 7 . 10 | 1.8 | 1.5 | 8 | 4 | 3 | | 4 | 4 | 7 | 1.2 | 6.3 | 5.0 | 1.2 | 7 | . 2 | .4 | | X | 15.7 20.9 23.5 |
| 9 - 1 | 1.5 | 1.4 | 1.0 | 9. | 7 | .3 | 4 | 4 | 8 | 1.2 | 3.0 | 2.3 | 1.1 | 3 | . 3 | 4 | | X | 15.7 |
| 1.3 | 6. | 7 | 9 | .4 | .5 | .3 | . 3 | . 2 | 5 | 9 | 1.1 | 8 | 9 | .3 | .3 | .3 | | \bigvee | 8.3 |
| SPEED (KNTS) DIR. | z | ZZE | N. | ENE | 3 | ESE | SE | SSE | S | SSW | SW | WSW | ж | WNW | WW | MNN | | CALM | 11.0 |
| | | | | | _ | | _ | | | | | | _ | | | - | - | | |

FEDERAL BUILDING - ASHEVILLE, N.C., 28801 DATA FROM NATIONAL CLIMATIC CENTER

254948

TOTAL NUMBER OF OBSERVATIONS

17-76989

| ALL | ALL HOURS (L.S. | | |
|--|--------------------|---------------------------|---------------------|
| Twenty Nine Palms, CA Condor July 1942 thru March 1943 | ALL WEATHER | 34° 08', 116° 02', 1,778' | HEIGHT ABOVE GROUND |

STATION

| MEAN WIND SPEED | 5.5 | 5.3 | 5.1 | 7.0 | 7.5 | 2.6 | 6.2 | 2.6 | 6.2 | 8.9 | 9.3 | 9.4 | 7.5 | 8.9 | 6.9 | 6.2 | 6.4 | |
|-----------------------|-----|-------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|------|-----|-----------|----------------|
| × | 6.1 | 0.5 | 1.4 | 0.5 | 4.7 | 2.0 | 4.4 | 0.5 | 2.4 | 1.1 | 4.6 | 2.9 | 10.8 | 8.7 | 32.3 | 6.2 | 10.9 | 100.0 |
| | | | | | | | | | | | | | | | | | X | |
| | | | | | | | | | | | | | | | | | X | |
| | | | | | | | | | | | | | | | | | \bigvee | |
| | | | | | | | | | | | | | | | | | M | |
| | | | | | | | | | | | | | | | | | X | |
| 2 47 | | | | | | | | | | | | | | 0.1 | | | X | 0.1 |
| 32-46 | 0.0 | | | | | | | | | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.1 | | X | 0.3 0.1 |
| 13-24 25-31 32-46 | 0.0 | | | | 0.0 | | 0.0 | | | | 0.2 | 0.0 | 0.1 | 0,3 | 0.3 | 0.0 | X | 1.0 |
| 13-24 | 0.3 | 0.0 | 0.0 | 0.0 | 0.5 | 0.1 | 0.3 | 0.1 | 0.2 | 0.3 | 1.0 | 0.7 | 1.5 | 1.1 | 2,3 | 0.3 | X | 8.7 |
| 4-12 | 3.7 | 0.3 | 0.9 | 0.4 | 3.4 | | 2.8 | 0.2 | 1.4 | 0.4 | 2.3 | 1.5 | 9.9 | 5.4 | 24.0 | 4.6 | \bigvee | 59.4 |
| 1-3 | 2.2 | 0.2 | 0.5 | 0.1 | 0.7 | 0.4 | 1.2 | 0.3 | 0.7 | 0.3 | 1.1 | 9.0 | 2.6 | 1.7 | 5.7 | 1.2 | \bigvee | 10.9 19.6 59.4 |
| SPEED MPH DIR. | z | N. N. | ž | ENE | . 3 | ESE | SE | SSE | s | SSW | WS. | WSW | * | WMW | WW | MNN | CAUM | 10.9 |

6,567

PERCENTAGE FREQUENCY OF WIND (FROM HOURLY OBSERVATIONS) DIRECTION AND SPEED

| Jan 1955 thru Dec 1964 BOOTH | ALL WEATHER ALL | LOCA 710N | |
|-------------------------------|-----------------|------------------------|--|
| 123275 Ukiah, CA station mant | ALL | 39°08', 123° 12', 630' | |
| 3275 | | | |

| WIND | 37.00 | 7.3 | 7.0 | 4.7 | 4.9 | 4.4 | 5.8 | 7.4 | 8.4 | 6.7 | 6.3 | 6.2 | 6.9 | 6.9 | 7.9 | 7.5 | 7.6 | | 9.9 | |
|------------------|-------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|-----|-----|-----|-----|------|-----------|-----|
| ж | | 4.6 | 2.1 | 1.3 | 0.5 | 0.7 | 1.0 | 3.4 | 7.0 | 3.0 | 0.8 | 0.7 | 6.0 | 2.3 | 4.6 | 5.4 | 4.1 | | 57.6 | 000 |
| | | | | | | | | | | | | | | | | | | | X | |
| | | | | | | | | | | | | | | | | | | | X | |
| | | | | | | | | | | | | | | | | | | | X | |
| | | | | | | | | | | | | | | | | | | | X | |
| | | | | | | | | | | | | | | | | | | | X | |
| > 21 | | | | | | | | | 0.0 | | | 0.0 | | | | | | 24.9 | X | |
| 17-21 | | 0.0 | 0.0 | 0.0 | | | | 0.0 | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | \bigvee | 0 |
| 7-10 11-16 17-21 | | 0.5 | 0.2 | 0.0 | 0.0 | 0.0 | 0.1 | 0.5 | 1.5 | 0.2 | 0.0 | 0.0 | 0.1 | 0.2 | 0.9 | 0.7 | 9.0 | 12.5 | X | |
| 7-10 | | 2.0 | 0.9 | 0.3 | 0.1 | 0.1 | 0.3 | 1.4 | 3.2 | 1.1 | 0.3 | 0.3 | 0.4 | 0.9 | 2.0 | 2.5 | 2.0 | 8.6 | X | 1 |
| 4-6 | | 1.5 | 8 0 | 9.0 | 0,3 | 0.4 | 0.5 | 1.2 | 2.0 | 1.3 | 0.4 | 0.3 | 0.3 | 6.0 | 1.3 | 1.6 | 1.2 | 4.9 | X | |
| 1-3 | | 0.5 | 0.2 | 0.3 | 0.1 | 0.2 | 0.2 | 0.3 | 0.3 | 0.3 | 0.1 | 0.1 | 0.1 | 0.2 | 0.3 | 9.0 | 0.3 | 2.7 | X | |
| SPEED | DIR. | z | NN | ž | ENE | | ESE | SE | SSE | S | SSW | S.W. | WSW | * | WHW | WW | MNN | Avg. | CAUA | |
| | | | | | | | | | | | | | | | | | | | | |

87,495

ALL BOOM (LRT.) 9 6.8 2.0 3.0 5.5 5.6 MEAN WIND 3.4 排 24.6 12.5 6.7 5.9 9.5 15.1 9 **H**9 25625 W. Rye Cyn. Rd. 1972 - 1974 HEIGHT ABOVE GROUND ALL WEATHER LOCATION 251 Walencia, SCE - Pardee STATION MAMA WPH WPH Z -¥ EN EN WSW WHW 25.5 SE SSE SSW Š × NNN 375 w ≱ PARD 121W

These data are available on an hourly basis. Note:

South Coast Air Quality Management District 9420 Telstar Avenue El Monte, CA 91731

Data from

5.2

99.8

25,176

| ALL | MINOMIN | ALL | Bouns (L.s.T. | | | | |
|---------------------------------------|--------------------|-------------|---------------|--|----------|-----|---------------------|
| VANDENBERG AFB CALIFORNIA 51-53,58-70 | STATION MANG YEARS | ALL WEATHER | CLASS | 34 ⁰ 43',120 ⁰ 34', 381' | LOCATION | 131 | HEIGHT ABOVE GROUND |

93214

| | _ | | | _ | _ | - | _ | _ | _ | - | | _ | _ | | | | _ | _ |
|-----|-------------------------|--|------------------------------------|---------------------------------------|--|--|------------------------------------|------------------------------------|---------------------------------------|--|-----------------------------------|--|---|---|---|--|--|--|
| 6.4 | 5.6 | 4.7 | 3.7 | 4.7 | 5,3 | 7.1 | 7.4 | 7.5 | 6.8 | 6.8 | 6,4 | 6.4 | 7.8 | 9.0 | 8.4 | | | 6.1 |
| 7.0 | 2.5 | 1.6 | 6. | 4.4 | 6.7 | 4.8 | 1.2 | 1.2 | . 7 | 1.4 | 1.7 | 6.1 | 7.6 | 22.1 | 13.2 | | 16.9 | 100.0 |
| | | | | | | | | | | | | | | | | | X | |
| | | | | | | | | | | | | | | | | | X | |
| | | | | | | | | | | | | | | | | | X | |
| | | | | | 0. | | | | | | | | 0. | 0. | 0. | | X | C |
| 0. | 0. | | 0. | | 0. | 0. | 0. | | 0. | | | | 0. | 0. | 0. | | X | - |
| 0. | 0. | 0. | | | 0. | -1 | 0. | 0. | 0. | 0. | | 0. | 0. | . 4 | .1 | | X | 7 |
| 1. | 0. | 0. | 0. | 0. | 0. | .2 | .1 | 0. | 0. | 0. | 0. | 0. | .1 | 1.1 | 9. | | X | 2.4 |
| 8 | .3 | Γ. | 0. | .1 | .3 | . 7 | .2 | .2 | .1 | .2 | .1 | .3 | 1.0 | 4.9 | 2.7 | | X | 12.0 |
| 1.7 | .5 | . 2 | , 1 | 9. | 1.3 | 6. | ۳. | .3 | . 2 | . 4 | . 7 | . 2.4 | 3.1 | 8.2 | 4.4 | | X | 25.3 |
| 2.6 | 6. | 9 | .3 | 2.1 | 3,3 | 1.8 | .3 | .3 | .2 | .5 | 9. | 2.5 | | 5.5 | 3.8 | | X | 27.9 |
| 1.7 | | . 7 | .5 | 1.5 | 1.7 | 1.2 | .3 | ٣. | .2 | .3 | e. | ω. | 6. | 1.9 | 1.5 | | X | 14.7 |
| z | ZNE | 32 | ENE | | ESE | SE | SSE | S | SSW | SW | WSW | * | WMW | WW | MNN | | CALM | 16.91 |
| | 7.7 2.6 1.7 8 1.1 0 0.1 | 1.7 2.6 1.7 .8 .1 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 | 1.7 2.6 1.7 .8 .1 .0 .0 .0 .0 .2.5 | 1.7 2.6 1.7 .8 .1 .0 .0 .0 .0 .0 .2.5 | 1.7 2.6 1.7 .8 .1 .0 .0 .0 .7 .7 .8 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 | 1.7 2.6 1.7 .8 .1 .0 .0 .0 .7 .8 .1 .2 .5 .5 .5 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 | 1.7 2.6 1.7 .8 .1 .0 .0 .0 .0 .2.5 | 1.7 2.6 1.7 .8 .1 .0 .0 .0 .0 .2.5 | 1.7 2.6 1.7 .8 .1 .0 .0 .0 .0 .0 .2.5 | 1.7 2.6 1.7 .8 .1 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 | 1.7 2.6 1.7 .8 .1 .0 .0 .0 .0 .00 | 1.7 2.6 1.7 .8 .1 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 | 1.7 2.6 1.7 .8 .1 .0 .0 .0 .0 .0 .8 .9 .5 .3 .0 .0 .0 .0 .0 .5 .3 .1 .0 .0 .0 .0 .0 1.5 2.1 .6 .1 .0 .0 .0 .0 1.7 3.3 1.3 .0 .0 .0 .0 .4 1.2 1.8 .9 .7 .2 .1 .0 .0 .3 .3 .2 .1 .0 .0 .0 .0 .3 .2 .1 .0 .0 .0 .0 .3 .5 .4 .2 .0 .0 .0 .8 2.5 2.4 .3 .0 .0 .0 | 1.7 2.6 1.7 .8 .1 .0 .0 .0 .0 1.8 .9 .2 .1 .0 .0 .0 .0 1.5 2.1 .0 .0 .0 .0 .0 1.7 3.3 .1 .0 .0 .0 .0 1.1 1.2 .2 .1 .0 .0 .0 1.2 1.3 .3 .2 .1 .0 .0 .0 1.3 .3 .3 .2 .1 .0 .0 .0 1.3 .3 .2 .1 .0 .0 .0 1.4 .2 .0 .0 .0 .0 1.4 .2 .1 .0 .0 .0 1.4 .2 .1 .0 .0 .0 1.4 .2 .0 .0 .0 .0 1.4 .2 .1 .0 .0 .0 1.5 .2 .2 .1 .0 .0 1.5 .2 .2 .1 .0 .0 1.5 .2 .2 .1 .0 .0 1.5 .2 <td> 1.7 2.6 1.7 8 1 0</td> <td> 1.7 2.6 1.7 .8 .1 .0 .0 .0 .0 .0 .0 .0</td> <td>1.7 2.6 1.7 .8 .1 .0 .0 .0 .0 .0 1.8 .9 .2 .1 .0 .0 .0 .0 .0 1.5 2.1 .2 .1 .0 .0 .0 .0 1.2 2.1 .6 .1 .0 .0 .0 .0 1.2 1.3 1.3 .2 .1 .0 .0 .0 1.2 1.8 .9 .7 .2 .1 .0 .0 1.3 .3 .2 .1 .0 .0 .0 .0 1.3 .5 .4 .2 .0 .0 .0 .0 1.4 .2 .1 .0 .0 .0 .0 1.2 .2 .2 .2 .1 .1 1.3 .5 .4 .2 .0 .0 .0 1.3 .2 .1 .0 .0 .0 .0 1.4 .2 .1 .0 .0 .0 .0 1.5 .2 .2 .3 .3 .4 .0 .0 1.5 .2 .4 .3<td> 1.7 2.6 1.7 .8 .1 .0 .0 .0 .0 .0 .0 .0</td></td> | 1.7 2.6 1.7 8 1 0 | 1.7 2.6 1.7 .8 .1 .0 .0 .0 .0 .0 .0 .0 | 1.7 2.6 1.7 .8 .1 .0 .0 .0 .0 .0 1.8 .9 .2 .1 .0 .0 .0 .0 .0 1.5 2.1 .2 .1 .0 .0 .0 .0 1.2 2.1 .6 .1 .0 .0 .0 .0 1.2 1.3 1.3 .2 .1 .0 .0 .0 1.2 1.8 .9 .7 .2 .1 .0 .0 1.3 .3 .2 .1 .0 .0 .0 .0 1.3 .5 .4 .2 .0 .0 .0 .0 1.4 .2 .1 .0 .0 .0 .0 1.2 .2 .2 .2 .1 .1 1.3 .5 .4 .2 .0 .0 .0 1.3 .2 .1 .0 .0 .0 .0 1.4 .2 .1 .0 .0 .0 .0 1.5 .2 .2 .3 .3 .4 .0 .0 1.5 .2 .4 .3 <td> 1.7 2.6 1.7 .8 .1 .0 .0 .0 .0 .0 .0 .0</td> | 1.7 2.6 1.7 .8 .1 .0 .0 .0 .0 .0 .0 .0 |

DATA FROM NATIONAL CLIMATIC CENTER FEDERAL BUILDING - ASHEVILLE, N.C., 28801

115324

TOTAL NUMBER OF OBSERVATIONS

_

PERCENTAGE FREQUENCY OF WIND

| | ALL | MONTH | ALL | MOURS (L.B.T.) | | | |
|---|------------------------------------|--------------|-------------|--|----------|-----|--|
| DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS) | VANDENBERG AFB/BOATHOUSE STN 66-67 | STATION NAME | ALL WEATHER | 34 ⁰ 43', 120 ⁰ 37', 78' cLASS | LOCATION | 541 | |

93219 BYATION

| WEAN WIND SPEED | 7.2 | 0.9 | 3.5 | | 4.4 | | | | | 3.7 | | 5.1 | 7.6 | 11.7 | 12.7 | 10.9 | | 7.9 |
|-------------------------|-----|------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|-------------|-------|
| × | 8.0 | 2.5 | 3.2 | 2.4 | 5.2 | 3.1 | 4.2 | 1.4 | 2.1 | 1.0 | 2.9 | 2.4 | 9.6 | 9.7 | 22.2 | 13.2 | 11.0 | 100.0 |
| % A1 | | | | | | | | | | | | | | | | | \bigvee | |
| 48 - 55 | | | | | | | | | | | | | | | | | \setminus | |
| 41 - 47 | | | | | | | | | | | | | | 0. | .1 | | X | .1 |
| 34 - 40 | | | | | | | | | | | | | 0. | .1 | .5 | .1 | X | : 7 |
| 28 - 33 | .1 | | | | 0. | | | | | | | | .1 | , 2 | 6. | .2 | X | 1.5 |
| 22 - 27 | .2 | 0. | | | 7. | .1 | | 0. | 0. | | 0. | | 0. | .5 | 1.4 | .7 | X | 3.1 |
| 17.21 | .3 | .2 | 0. | | 0. | .1 | . 3 | .1 | 0. | 0. | | | .1 | . 7 | 2.1 | 1.4 | X | 5.4 |
| 11 . 16 | 1.2 | .2 | .1 | 0. | ۳. | 4. | . 7 | | .1 | | 0. | .1 | . 7 | 3.1 | 7.0 | 3.8 | X | 18.0 |
| 7 - 10 | 1.7 | .2 | .2 | .1 | 4. | .5 | 9. | . 2 | . 2 | .1 | . 4 | .5 | 1.8 | 2.6 | 5.6 | 3.6 | X | 18.7 |
| 4.6 | 1.6 | 4. | 6. | ω. | 1.4 | . 7 | 6. | .3 | 4 | . 4 | 1,1 | 1.1 | 1.3 | 1.5 | 2.7 | 1.8 | X | 17.4 |
| | 2.9 | 1.4 | 2.0 | 1.4 | 3.0 | 1,2 | 1.7 | . 7 | 1.3 | 9. | 1.3 | . 7 | 1.4 | 88 | 1.9 | 1.7 | X | 24.0 |
| SPEED (KNTS) DIR. | z | N.N. | . NE | ENE | 3 | ESE | SE | SSE | S | SSW | SW | WSW | * | WHW | NW | NNW | CALM | 11.0 |
| | | | | | - | | | | | | | | | _ | | - | | _ |

DATA FROM NATIONAL CLIMATIC CENTER FEDERAL BUILDING - ASMEVILLE, N.C., 28801

9313

TOTAL NUMBER OF OBSERVATIONS

-254-

| ALL | ALL | (CRT.) | | | MEAN | STED | 5.7 | 4.8 | 3.3 | 3.0 | 2.3 | 5.0 | 2 | 5.6 | 3.6 | 7. 7 | 2 | 1.7 | 2 | 2.7 | | 6.1 | |
|---------------|--------------|----------------------|-----|---------------------|-------|-------------|-----|------|-----|------|-----|-----|--------|-----|------|------|-----|-----|------|-----|-----|-----|------|
| | | i | | | | Pic | 2.7 | 1:1 | 1.6 | 3.0 | 6.2 | 9.4 | œ œ | 9.9 | 18.6 | 7.9 | 3.6 | 7.5 | 13.0 | 4.5 | 3.7 | 3.0 | |
| | | | | | | | | | | | | | | | | | | | | | | | X |
| | | | 1 | ı | | | | | | | | | | | | | | | | | | | X |
| | YEARS | venue | | | | | | | | | | | | | | | | | | | | | X |
| | | , 5800 Fulton Avenue | | | | | | | | | | | | | | | | | | | | | X |
| 1964 - 1961 | | 800 Fu | | Q | | | | | | | | | | | | | | | | | | | X |
| 러 | ALL WEATHER | CLASS , 5 | 301 | HEIGHT ABOVE GROUND | | | | | | | | | | | | | | | | | | | X |
| | ALL WE | 70 | ۲٥٥ | HEIGHT A | | | | | | | | | | | | | | | | | | | X |
| | | | | | | | | | | | | | | | | | | | | | | | X |
| | STATION MAMS | | | | | | | | | | | | | | | | | | | | | | X |
| AVC | 674710 | | | | | | | | | | | | | | | | | | | | | | X |
| Van Nuys LAVC | | ı | 1 | | | | | | | | | | | | | | | | | | | | X |
| Van | | | | | SPEED | MPH PIR. | z | m XX | × | az a | | ESE | SE | 558 | 5 | SSW | NS. | WSW | × | WHW | MM | NNN | CALM |
| LAVC 105W | 87a718a | | | | | | | | | | | | | | | | | | | | | | |

Data from South Coast Air Quality Management District 9420 Telstar Avenue El Monte, CA 91731

Note:

These data are available on an hourly basis.

28,665

| October 1961 - August 1962 | YZAAS | ALL | SEROR | | | |
|--------------------------------|---------------|-------------|-------|------------------------|----------|--|
| Van Nuys, CA ANGB October 1961 | STATION MAN'S | ALL WEATHER | CLASS | 34°13', 118° 30', 794' | LOCATION | |

8TA 7 10 m

| SPEED | 1 3 | 0 - 1 | 0 > 0 > 0 > 0 > 0 | 22-27 | 28-40 | V 40 | | | | | | * | WIND |
|-------|----------------|-------|-------------------|-------|-------|------|---|---|---|---|---|-------|-------|
| DIR. | C_T | 01-4 | 77_77 | 17-77 | 107 | | | | | | | | SPEED |
| z | 1.4 | 2.6 | 3.0 | 0.4 | 0.1 | | | | | | | 7.4 | 10. |
| W Z Z | 0.7 | 1.2 | 1.1 | 0.1 | 0.0 | | | | | | | 3.2 | 10. |
| Z | 1.5 | 1.4 | 0.4 | 0.1 | 0.0 | 0.0 | | | | | | 3.5 | . 9 |
| ENE | 0.7 | 9.0 | 0.0 | 0.0 | | | | | | | | 1.4 | 4. |
| | 2.1 | 3.7 | 0.1 | 0.0 | | | | | | | | 5.9 | 5. |
| ESE | 1.2 | 2.9 | 0.2 | | | | | | | | | 4.2 | 5. |
| SE | 3,3 | 10.1 | 9.0 | 0.0 | | | | | | | | 14.0 | . 9 |
| SSE | 1.2 | 3.9 | 0.2 | 0.0 | | | | | | | | 5.3 | 9 |
| s | 1.9 | 2.7 | 0.1 | 0.0 | | | | | | | | 4.9 | 5. |
| SSW | 0.5 | 1.0 | 0.1 | 0.0 | | | | | | | | 1.5 | 5. |
| AS. | 1.4 | 1.4 | 0.1 | | | | | | | | | 2.9 | 4 |
| WSW | 0.7 | 1.0 | 0.1 | 0.0 | | | | | | | | 1.8 | 5. |
| * | 2.1 | 3.0 | 0.2 | 0.0 | | | | | | | | 5.4 | 5 |
| WHW | 6.0 | 1.3 | 0.1 | 0.0 | | | | | | | | 2.3 | 5. |
| WW | 1.7 | 1.5 | 0.3 | 0.0 | 0.0 | | | | | | | 3.5 | 5. |
| WNW | 9.0 | 0.8 | 0.7 | 0.1 | 0.0 | | | | | | | 2.1 | 9. |
| | | | | | | | | | | | | | |
| CAUM | X | X | X | X | X | X | X | X | X | X | X | 30.5 | 4. |
| 30.5 | 30.5 21.8 39.5 | 39.5 | 7.3 | 8.0 | 0.1 | 0.0 | | | | | | 100.0 | |
| | | | | | | | | | | | | | |

LUM4111100011014

DATA FROM NATIONAL CLIMATIC CENTER FEDERAL BUILDING - ASHEVILLE, N.C., 28801

53,258

TOTAL NUMBER OF OBSERVATIONS

-256-

Note: These data are available on an hourly basis.

| ALL | ALL | HOURS (L.S.T.) | | | |
|------------------------------------|-------------|----------------|-------------------------|----------|--|
| Visalia, CA Jan 1932 thru Dec 1932 | ALL WEATHER | CLAS\$ | 36° 20', 119° 17', 354' | LOCATION | |

BYAYION

| MEAN WIND SPEED | | | | | | | | | | | | | | | | | | |
|-----------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|-----|-----|------|-----|-----------|-----------|
| × | 5.8 | 0.8 | 2.3 | 1.9 | 3.6 | 1.9 | 9.7 | 3.0 | 4 | 1.4 | 3.1 | 2.0 | 4.2 | 5.6 | 20.1 | 5.7 | 26:2 | 0 00 4 |
| | | | | | | | | | | | | | | | | | X | |
| | | | | | | | | | | | | | | | | | X | |
| | | | | | | | | | | | | | | | | | X | |
| | | | | | | | | | | | | | | | | | X | |
| | | | | | | | | | | | | | | | | | X | |
| | | | | | | | | | | | | | | | | | \bigvee | |
| | | | | | | | | | | | | | | | | | \bigvee | |
| | | | | | | | | | | | | | - | | | | X | |
| > 31 | | | | | | | | | | | | | | | | | \bigvee | |
| 4-15 16-31 > 31 | 0.1 | | | 0.0 | 0.0 | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 | 0.1 | 0.0 | 0.0 | 0.2 | 1.4 | 0.3 | X | 2 2 |
| 4-15 | 5.8 | 0.8 | 2.3 | 0.5 | 3.6 | 1.8 | 9.6 | 2.9 | 4.0 | 1.4 | 3.0 | 2.0 | 4.2 | 5.4 | 18.7 | 5.4 | X | 73 6 |
| SPEED MPH DIR. | z | NN | ž | N N | | ESE | SE | SSE | s | SSW | S.W. | wsw | * | WHW | WW | MNN | CALM | 26 2 73 6 |

DATA FROM NATIONAL CLIMATIC CENTER FEDERAL BUILDING - ASHEVILLE, N.C., 28801

| | ALL | ALL | Beens (L.E.T.) | | | MEAN WIND SPTED | 3.8 | 3.1 | 3.6 | 4.3 | 7 8 | 3.1 | 3.5 | 4.5 | 6.2 | 7.3 | 7.1 | 2 | 4.5 | 7 | 4.0 | 3.3 | | 4.9 | 10 |
|----------------------------|-------------|--------------|--------------------|------|---------------------|-----------------------|-----|-----|-----|-----|-----|-----|-----|------|-----|------|-----|-----|-----|-----|-----|------|-----------|------|--|
| | • | | - | | | * | 1.0 | 6.4 | 8 | 0.3 | 7.3 | 5.0 | 7.4 | 10.8 | 7.5 | 13.2 | 5.0 | 7.5 | 6.1 | 2.2 | 0.7 | 1.5 | | 6.66 | 77,901 |
| | | | | | | | | | | | | | | | | | | | | | | | X | | RYATIONS |
| | | | | | 1 | | | | | | | | | | | | | | | | | | X | | TOTAL NUMBER OF ORSERVATIONS |
| | 8 | WLANG | treet | | | | | | | | | | | | | | | | | | | | X | | TOTAL NUM |
| 2 | 1965 - 1973 | | 18330 Gault Street | | | | | | | | | | | | | | | | | | | | M | | rict |
| (Thom Hooker Observations) | 1965 | | 8330 G | | GND | | | | | | | | L | | | | | | | | | | \bigvee | | South Coast Air Quality Management District 9420 Telstar Avenue El Monte, CA 91731 |
| 2002 | | ALL WEATHER | CLASS 1 | 301 | HEIGHT ABOVE GROUND | | | | | | | | | | | | | | | | | | X | | nagemer |
| 200 | | ALL V | | 3 (, | HEIGHT | | | | | | | | | | | | | | | | | | X | | ity Ma |
| | | | 70511, | | | | | | | | | | | | | | | | | | | | \bigvee | | r Qual venue 91731 |
| | | STATION MANG | 340001, 1170511 | | | | | | | | | | | | | | | | | | | | X | | ast Aistar A |
| | | BTA | 3400 | | | | | | | | | | | | | | | | | | | | X | | outh Co |
| | Walnut | | | | | | | | | | | | | | | | | | | | | | X | | rom Sc 94 E1 |
| | Wa | | | | | MPH PIF | z | 77 | a z | ENE | | ESE | SE | SSE | | SSW | AS. | WSW | * | WHW | MA | MONA | CALM | | Data from |
| | 106W | \$74 Tibe | | | | | | | | | | | | | | | | | | | | | | | |

Note: These data are available on an hourly basis.

| Wasco 9NW Marci internal ALL WEATHER Sco. 411', 1190 32', 120' 8 |
|--|
| |

TOTAL hrs. of OSSERVATIONS 8,760

Los Angeles Department of Water and Power

DATA FROM

5 minute observ.

100.001

398

| POVES (LET.) | WEAN WIND SPEED | | | | | | | | | | | | | | | | | | |
|--|-----------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|-------|------|------|---|
| | ył. | 7.8 | 3.8 | 5.6 | 2.3 | 2.6 | 3.5 | 5.2 | .C. | 9.7 | 7 | 9.4 | 5.0 | 11.7 | 10.5 | 10.01 | 13.5 | 0.3 | 1 |
| | | | | | | | | | | | | | | | | | | X | 1 |
| 32, 2301 | | | | | | | | | | | | | | | | | | X | |
| 712ag | | | | | | | | | | | | | | | | | | X | |
| | | | | | | | | | | | | | | | | | | X | į |
| 2, 230 | | | | | | | | | | | | | | | | | | X | |
| ALL WEATHER CLASS LOCATION 30' HEIGHTAROVE GROUND | | | | | | | | | | | | | | | | | | X | |
| ALL WEATHER 55° 44; 119° 32, 230' 66.87104 30' HEIGHT ABOVE GROUND | | | | | | | | | | | | | | | | | | X | |
| 350 | | | | | | | | | | | | | | | | | | X | |
| 2 PA B B | 8.0 | 0.0 | | 0.0 | 0.0 | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | 0.0 | 0.5 | 0.5 | 0.3 | 0.3 | X | |
| \$17100 BAR | 0.0 | 3.0 | 0.8 | 0.3 | 0.3 | 0,3 | 0.5 | 1.0 | 6.0 | 0.5 | 0.5 | 0.7 | 1.5 | 5.7 | 4.3 | 5.0 | 6.7 | X | |
| | 3.00 | 4.8 | | 2.3 | | - 4 | 3.0 | 4.2 | 4.1 | 4,1 | 3.6 | 3.9 | 4.4 | 5.5 | 5.7 | 6.7 | 6.5 | X | |
| | MPS MPS | z | NNE | ž | ENE | - | ESF | SE | 556 | s | SSW | SW | WSW | * | WHW | MW | MNW | CALM | |
| Stayled | w | | | _ | _ | | _ | | | | | | | | 3 | | - | _ | |

Totalire. OF OBSETY-5 minute observinterval

DATAFROM Los Angeles Department of Water and Power

| | | ALL | 114 | Boose (LAT.) | | | | WIND | SPEED | 3.6 | 0.0 | 2.1 | 2.3 | 2.0 | 2.8 | 2.5 | 2.4 | 2.3 | 8.8 | 4.2 | 4.6 | 2.9 | 2.2 | 2.1 | 3.3 | | | 3.3 | |
|----------------------------|------------------|--------------|-------------|-----------------------|-----------------|---------------------|-----|------|-------|-----|-----|-------|-----|-----|-----|-----|-----|-----|-----|------|------|-----|-----|-----|-----|---|-----------|-----------|--|
| | | 1 | | - | | | - | * | _ | 8.5 | 9.3 | 5.9 | 4.3 | 6.4 | 2.8 | 2.2 | 2.3 | 4.6 | 9.1 | 10.3 | 18.6 | 6.2 | 1.8 | 1.5 | 2.2 | | | 100.0 | 95,838 |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | X | | RYATIONS |
| | | | | | 1 | 1 | - | | | | | | | | | | | | | | | | | | | | X | | TOTAL NUMBER OF ORSERVATIONS |
| | | YEARS | | vd. | | | - | | | | 1 | - | 1 | | | | | 1 | | | | | | | | | XI | | TOTAL NUM |
| (SNC | 1973 | | | 2351 Westwood Blvd. | | | - | | 1 | + | 1 | - | - | 1 | 1 | 1 | | | 1 | 1 | 1 | 1 | 1 | | | | X] | | rict |
| SERVATIC | 1962 - 1973 | | × | Westw | | NOUND | - | | + | + | + | 1 | + | 1 | + | + | 1 | 1 | 1 | 1 | | 1 | 1 | 1 | 1 | | Å | | nt Dist |
| (FROM HOURLY OBSERVATIONS) | | | ALL WEATHER | 2351 | LOCATION 351 | HEIGHT ABOVE GROUND | - | | + | + | + | + | + | + | + | + | - | - | 1 | 1 | - | - | - | - | + | | \langle | | 9420 relstar Avenue El Monte, CA 91731 |
| OM HO | | 1 | Į. | , 901, | | HEIGH | - | | + | - | - | - | + | + | - | - | - | - | - | - | - | - | - | - | | | | | Trong Wa |
| (FR | | | | 34,031, 1180261, 901, | | | - | | - | - | - | - | - | - | - | | - | Ĺ | - | | | | - | | | | | 2 0 | Avenue 91731 |
| | eles | STATION MADE | | 03', 1 | | | - | | - | | L | L | - | | - | | | | | | | | | | - | X | | A + 0 a C | lstar A |
| | West Los Angeles | | | 346 | | | - | _ | | | | | | | | | | | | | | | | | | X | | Out h | 420 Te |
| | West | | | | | | H | | | | | | | | | | | | | | | | | | | X | | from S | |
| | 1 | | | | | | HAM | DIR | Z | N. | ž | and a | | 253 | * | 255 | - | 35W | AS. | WSW | ≥ | WYW | Ž | MAN | | 3 | | Data from | |
| WEST | 102W | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

Note: These data are available on an hourly basis.

| ALL | HONTH | ALL | BOURS (L.S.T.) | | | | |
|-------------------------------------|-----------|-------------|----------------|------------------------|----------|-------|----------------|
| Williams. CA Jan 1934 thru Dec 1938 | TION HAME | ALL WEATHER | CLASS | 39°06', 122° 09', 128' | LOCATION | - 100 | UNION MACHINET |

STATIOS

| SPEED DIR. | 0-3 | 4-15 | 4-15 6-31 32-47 > 47 | 32-47 | > 47 | | | | | | | у | WIND SPEED |
|---------------|------|----------------|----------------------|-------|-----------|---|---|-----------|-----------|-----------|-----------|------|---------------|
| z | | 4.8 | 1,3 | 0.1 | | | | | | | | 6.2 | |
| N.N. | | 1.6 | 0.1 | 0.0 | | | | | | | | 1.7 | |
| 2 | | 3.1 | 0.0 | | | | | | | | | 3.1 | |
| ENE | | 6.0 | 0.0 | | | | | | | | | 1.0 | |
| | | 4.5 | 0.1 | | | | | | | | | 4.5 | |
| ESE | | 3.6 | 0.3 | | | | | | | | | 3.8 | |
| SE | | 14.9 | 2.4 | 0.1 | | | | | | | | 17.4 | |
| SSE | | 1.8 | 0.7 | 0.0 | | | | | | | | 2.5 | |
| s | | 3.0 | 0.5 | | | | | | | | | 3.5 | |
| SSW | | 0.8 | 0.2 | 0.0 | | | | | | | | 111 | |
| SW | | 5.0 | 0.9 | 0.0 | | | | | | | | 5.9 | |
| WSW | | 1.5 | 0.4 | 0.0 | | | | | | | | 1.9 | |
| * | | 9.7 | 0.7 | 0.0 | | | | | | | | 10.5 | |
| WHW | | 1.7 | 0.1 | | | | | | | | | 8 | |
| WW | | 11.5 | 6.0 | 0.0 | | | | | | | | 12.4 | |
| MNM | | 3.4 | 2.2 | 0.2 | | | | | | | | 5.8 | |
| | | | | | | | | | | | | | |
| CALM: | X | X | X | X | \bigvee | X | X | \bigvee | \bigvee | \bigvee | \bigvee | 17:0 | |
| | 17.0 | 17.0 71.8 10.8 | 10.8 | 0.4 | | | | | | | | 1000 | |

DATA FROM NATIONAL CLIMATIC CENTER FEDERAL BUILDING - ASHEVILLE, N.C., 28801

TOTAL NUMBER OF OBSERVATIONS 43,777

263-

ALL BOOMS (LAT.) WIND WIND 5.5 ᆙ 44,392 8.66 200 0.4 TOTAL NUMBER OF OBSERVATIONS Island and B. Street South Coast Air Quality Management District 9420 Telstar Avenue El Monte, CA 91731 1953 - 1961 HEIGHT ABOVE GROUND ALL WEATHER LOCATION 101 1180161 STATION MAME 33°461, Wilmington Data from MPH MPH DIR. z ž Z S. 22 22 \$SW WSW WHW SSE SW. NA ANA SALM v ₹ W400

These data are available on an hourly basis. Note:

PERCENTAGE FREQUENCY OF WIND (FROM HOURLY OBSERVATIONS) DIRECTION AND SPEED

| ALL | ALL | SPORS (L.C.T.) | |
|---------------------|-------------|----------------|---------------|
| 1/1/55 - 12/31/59 | ALL WEATHER | CLASS | Texas Oil Co. |
| Wilmington Refinery | | | |
| TXS 006W | | | |

HEIGHT ABOVE GROUND

| | | | | | | | | Air Quality Management District TOTAL NUMBER OF ONSERVATIONS |
|--|--|--|--|--|--|--|---|--|
| | | | | | | | X | South Coast Air Qua |

These data are available on an hourly basis. Note:

| | ALL | ALL BOOM (LET.) | | | MEAN | SPEED | α n | 2.7 | 3.1 | 3.1 | C | 100 | ~ | 3.5 | L | 6.7 | Ш | 5.4 | 7.4 | 3.9 | 4 10 | 7:7 | | I | 3.9 | 05 |
|--------------|--------------|--|--------|--------------------|------------|-------|--------|-----|-----|-----|------|-----|-----|-----|------|-----|-----|-----|------|-----|------|-----|---|---|---|---|
| | | 1 | | | | | 4.8 | 4.3 | 5.2 | 7,8 | 7,6 | 463 | 4.7 | 6.9 | 11.5 | 9.5 | 5.4 | 7.2 | 10.2 | 4 | 2.0 | 2.0 | | | 99.7 | 38,705 |
| | | | | | | | | | | | | | | | | | | | | | | | | | | RVATIONS |
| | | 1 | | 1 | _ | | | | | | | | | | | | | | | | | | X | | | TOTAL NUMBER OF ORSERVATIONS |
| | YEARS | 70 | . Na. | | | | | 1 | 1 | | | | | 1 | 1 | | | | | | | | X | 1 | | TOTAL NUM |
| (670 | 5763 | EAIHER LASS 14427 Laffingsall Da | TO MAG | | - | | 1 | 1 | 1 | 1 | 1 | - | | 1 | 1 | 1 | 1 | | 1 | 1 | | | X | | n of | |
| (CMO) - 0901 | 606 | 77 Tef | | ROUND | - | + | + | + | + | - | - | 1 | 1 | 1 | 1 | 1 | | | 1 | - | | | X | | nt. Die | |
| | 1 | ≥ U | 100 | HEINT ABOVE GROUND | - | + | + | + | + | + | + | + | + | + | - | - | 1 | | - | - | | | X | | nageme |) |
| ezot = oyot | | 350: | 9 | 2 | - | + | 1 | + | + | + | - | - | | - | - | - | - | | - | - | | | X | | lity Ma | , |
| | | 33°56', 118°02', 350'. | | | | + | - | - | - | - | - | | | - | | | | | | | | - | X | | ir Qua | Avenue 91731 |
| | STATION NAME | 56'. 1 | | | | + | - | | | - | | - | | | | | | | | | | - | X | | oast A | lstar e, cA |
| ler | | 330 | | | | + | | | | | | | | | | | | | | | + | 1 | X | | South Coast Air Quality Management District | 9420 Telstar Avenue El Monte, CA 91731 |
| Whittier | | | | | MPH one | | | | | | | | | | | | > | | > | | | 1 | X | | Data from S | OVE |
| | | | | | \$2 ā | Z | Z | Z | ENE | | 25.5 | SE | 25. | | SSW | ×S. | WSW | } | WIW | Ž. | ANA | | 3 | | Data | |
| WHTR 114W | 87a7a | | | | | | | | | | | | | | | | | | | | | | | | | |

Note: These data are available on an hourly basis.

| ALL | MONTH | ALL | MOURS (L.S.T.) | | |
|-----|-------------------------|-------------|--|----------|-----|
| | 2.3.19 IUPA ANIZONA INI | ALL WEATHER | 32 ⁰ 40', 114 ⁰ 36', 20' | LOCATION | 201 |

| | | _ | , | - | _ | _ | _ | - | _ | _ | _ | _ | _ | $\overline{}$ | _ | $\overline{}$ | _ | | _ | 7 | - 17 | _ |
|-------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|---------------|-----|---------------|-----|-----|-----|---|-----------|-------|
| WIND | 8.0 | 9.9 | | 1 | | 7 | | | - 4 | 7.8 | 7.1 | 6 9 | | | | | 6.9 | 7.8 | | | | 6.7 |
| ył. | 9.7 | 7.7 | A 2 | | 707 | 4 | 70- | | - 4 | 8.4 | 4.9 | 2 | 1 | 7.0 | 6.3 | 6.9 | 4.3 | 5.1 | | | 9.6 | 100.0 |
| % A1 | | | | | | | | | | | | | | | | | | | | | X | |
| 48 - 55 | | | | | | | | | | | | | | | | | | | | | X | |
| 41 - 47 | | | | | | | | | | | | | | | | 0 | | | | | X | 0. |
| 34 - 40 | | | | | | | | | | | | | | | | 0 | | | | | \bigvee | 0 |
| 28 - 33 | c | | , | 3 | | 9 | | 9 | 0 | | c | 1 | | | 0 | 0 | C | | 2 | | X | 0 |
| 22 - 27 | - | | , | 9 | 9 | o. | d | 0 | 0 | 0 | C | 1 | 0 | 0 | 7 | .1 | c | 1 | 7 | | X | 1 |
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| SPEED (KNTS) DIR. | | z | ZZ | 2 | ENE | 10 | ESE | SE | SSE | | , | SSW | Sw | WSW | 3 | And And | | × | MNN | | CALM | 90 |
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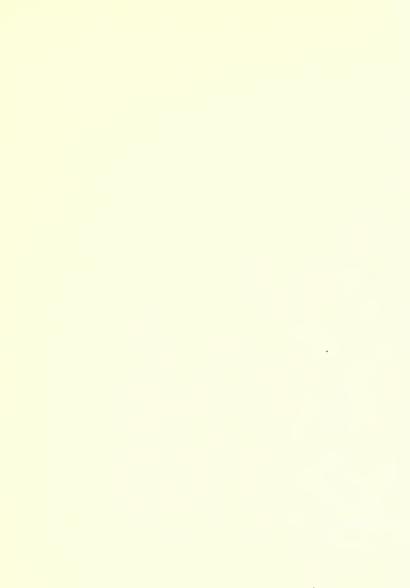
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